CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 12, 1908.

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CONSTRUCTION NEWS.

For the convenience of readers, the items in each department of the Construction News Supplement are arranged in a geographical order as follows:

NEW ENGLAND: Me., N. H., Vt., Mass., R. I., Conn. MIDDLE: N. Y., N. J., Pa., Del., Md., D. C. SOUTH ATLANTIC: Va., W. Va., N. C., S. C., Ga., Fla. SOUTH CENTRAL: Ala., Miss., La., Tenn., Ky. NORTH CENTRAL: Ohio, Ind., Mich., Ill., Wis. NORTHWESTERN: Iowa, Minn., Kan., Neb., S. Dak., N. Dak., Wyo., Mont. SOUTHWESTERN: Mo., Ark., Tex., Okla., Colo., N. Mex. PACIFIC: Wash., Ore., Cal., Ariz., Nev., Utah, Idaho. CANADA: N. B., N. S., P. E. I., Que., Ont., Man., Sask., Alta., N. W. T., B. C., NEWFOUNDLAND, MEXICO.

The advantage of the geographical arrangement over the alphabetical is that all the items relating to work in one locality are kept together. In the Department of Railways only, where a company may be referred to by its name, is the alphabetical arrangement of items used.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

3-13*Dredging, New London, Conn. (S.) 2-20
3-14*Wharf, Key West, Fla. (P. & S.) 2-13
3-14*Walls, Buffalo, N. Y........ S.) 1-16
3-14 Concrete bridge, Nottingham, Ohio ....(P. & S.) 3- 5
3-15*Sinking shaft, York, Pa....(S.) 2-20
3-16*Dikes, New York............(S.) 2-13
3-17*Pumps, Philadelphia, Pa. ....(P. & S.) 3-12
3-18 Pumping plant, Oakland, Cal. ....(P. & S.) 2- 6
3-18*Ditch, Brainerd, Minn........(S.) 3- 5
3-19*Steel bridge, Benton Harbor, Mich. ....(P. & S.) 3-12
3-19*Barracks, Sandy Hook, N. J. ....(P. & S.) 2-20
3-21 Bldgs. and passages, Bremerton, Wash. ....(S.) 2-20
3-25 Ditch, Elbow Lake, Minn. ....(P. & S.) 2-27
3-25*Basin, Springfield, Mass.....(S.) 2-27
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3-27*Navigation pass, Wheeling, W. Va. ....(P. & S.) 3- 5
3-28*Hydrotherapeutic equipment, Hot Springs, S. Dak.............(S.) 3- 5
3-28 Sawmill, etc., New Orleans, La. ....(S.) 3- 5
3-28 Boilers, etc., Bremerton, Wash. ....(S.) 2-27
3-31*Cement, Wheeling, W. Va...(S.) 3- 5
3-31*Breakwater, Hawaii, T. H. ....(P. & S.) 2-13
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4- 1*Canal, Klamath Falls, Ore...(S.) 2-13
4-15*Dam, Portland, Ore..........(S.) 2-27
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5- 1*Reduction works, Columbus, Ohio ....(S.) 3- 5

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3-17 Bridge lights, Hartford, Conn.... 3-12
3-18 Elec. equipment, North Chicago, Ill... 2-13
3-28 Boilers stack, etc., Bremerton, Wash. 2-27
3-31 Lighting, Wilmington, Del...... 3- 5
4- 1 Lighting, Mount Vernon, Ind..... 2-13
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3-14 Steel concrete bridge, Cleveland, Ohio 2-20
3-14 Bridges, Salem, Ind.......... 3-12
3-16 Bridge, Mount Vernon, Ind...... 3- 5
3-16 Bridges, Minneapolis, Minn...... 3- 5
3-17 Bridge, Milwaukee, Wis.......... 2-27
3-18 Bridge, Empire, Colo.......... 3- 5
3-18*Salt-water pumping plant, Oak-
3-19*Steel b'dge, Benton Harbor, Mich. 2-27
3-20 Bridge floor, Columbus, Ohio.... 3- 5
3-23 Bridge, Hillsborough, N. B...... 3- 5
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3-16 Repairs, New York, N. Y.......... 3- 5
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3-17 Hospital, Delaware, Ohio....... 2-20
3-17 Mill, etc., Industry, N. Y........ 3-12
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3-18 Heating, Los Angeles, Cal........ 2-13
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3-19*Vacuum system, Los Angeles, Cal. 2-20
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4- 1 Building, Lincoln, Neb.......... 3-12
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4- 9 Post-office, Dixon, Ill.......... 3- 5
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4-10*Post-office, Jackson, Miss...... 3- 5
4-11*Post-office, Bessemer, Ala........ 3- 5
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3-16 Tile sewers, etc., Cairo, Ill....... 3-12
3-17*Sewer system, etc., Auburn, N. Y. 1-30
3-17*Sewer, Chattanooga, Tenn....... 2-27
3-18 Sewer, Oakland, Cal.......... 2-27
3-19*Sewer, Grand Rapids, Mich....... 3-12
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3-23 Sewers, Wellington, Kan........ 3- 5
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3-16 Sidewalks, Grenada, Miss........ 3-12
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3-16 Paving, Scranton, Pa.......... 3-12
3-16 Paving, etc., Zanesville, Ohio.... 2-27
3-16*Paving, etc., Huntington, W. Va. 3- 5
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RAILWAYS.

ARIZONA & COLORADO.—This company, capitalized at $1,000,000, has been incorporated in New Mexico. Fayette A. Jones, an engineer of Albuquerque, N. Mex., has left Columbus, Luna County, N. Mex., which will be the southern terminus, with a party of engineers to make a preliminary survey. Durango, Colo., will be the northern terminus. The line will be 350 miles long, and will open coal regions and new territory.

ATCHISON, TOPEKA & SANTA FE.—After years of contemplation and plans that have been long delayed, actual work in the rebuilding of the Santa Fe line between Los Angeles and San Diego, Cal., has been started, according to the Los Angeles "Examiner." "The improvements include elimination of several grades and straightening of the track at various points and are estimated to cost over $1,000,000. All of this money will be expended by the Santa Fe in the next year or two in Southern California, and the word has gone out from Chicago that the line between Los Angeles and San Diego, which has long been in bad condition, will be put in first-class shape, perfectly ballasted."

BAINBRIDGE NORTHEASTERN. — This railway will be constructed from Bainbridge northeast to Pelham, Ga., 20 miles. The company's charter calls for a line 70 miles long, traversing the counties of Mitchell, Thomas, Grady and Decatur, and extending through Florida to a point on the Gulf of Mexico. Capital stock, $200,000. The officers are as follows: E. Swindell, Pres.; J. C. McCackill, Vice-Pres.; J. Swindell, Gen. Mgr.; Lee Parker, Supt.; L. H. Tonge, Secy. and Treas.; and Byron Power, Gen. Counsel, all of Bainbridge, Ga. Noted on Dec. 5.

BEAUMONT & GREAT NORTHERN.—This railroad is now constructed from Trinity to Livingston, Tex., 33 miles. It is in operation from Trinity to Onalaska, 20 miles, and the line from Onalaska to Livingston will be opened in about 90 days. From Livingston it will be constructed to Beaumont, Port Arthur and Sabine Pass, Tex., about 75 miles. T. H. Clement is Ch. Engr., Onalaska.

CANADIAN NORTHERN.—Company may relay its line between Winnipeg, Man., and Port Arthur, Ont., a distance of 439 miles, with 80-lb. rails, and reballast the track, it is reported. M. H. McLeod is Gen. Mgr., Winnipeg.

Construction on the Hudson Bay branch has now reached Pas Mission, 97 miles north of Etoimami, Sask., where the branch leaves the main line. According to the survey there remains but 327 miles to Fort Churchill on the shores of Hudson Bay. Construction on this line will be rushed during the coming summer.

CHESAPEAKE & ATLANTIC TRANSPORTATION CO.—Incorporated in Oklahoma with a capital stock of $125,000. The incorporators are: J. P. Hurst and George E. Jones, of Norfolk, Va.; and E. L. McKeown, of Guthrie, Okla.

CHICAGO, MILWAUKEE & ST. PAUL.—Announcement is made by A. J. Earling, Pres., that "work on the new Pacific extension is going ahead at a rapid rate, so rapid, in fact, that it is up to date the holder of the record for speedy construction. About one-half of the track has been laid between the Missouri River and the Pacific coast. Such preparatory work as grading and bridging is about 52% finished. The new line will be entirely completed by the end of the present working season. The only undertaking of any magnitude which will not be finished by that time will be the tunnel, 8,500 ft. long, through the Bitter Root Mountains. This will be completed by April, 1909. The Cascade Mountains will not be tunneled, but crossed at surface. The grade will be 1.7% —considerably less than that of any other transcontinental at this point. The Northern Pacific and the Great Northern have tunnels through the Cascades, 11,000 and 13,000 ft. long, respectively. By the middle of this month 635 out of the 1,372 miles from the Missouri River to Seattle will be in operation. Then regular scheduled freight and accommodation passenger service will be established and maintained. Through trains will not be run until April or May in 1909. We have plenty of money to complete the work—no further financing will be necessary. In fact, that done in December, 1906, is not only sufficient for the purpose, but will leave a comfortable surplus. This is assured by the decreasing cost of labor and materials, which amounts to fully 30%, as compared with the prices which prevailed when we started the work." D. J. Whittemore is Ch. Engr., Chicago.

CHICAGO, MILWAUKEE & GARY.—This company was incorporated on March 4 in Illinois, to provide Chicago with a comprehensive outer belt system with 260 miles of main line. The capital stock of the new company is $10,000,000 and the incorporators and first Board of Directors are Hallock W. Seaman, Benjamin H. Harris, William F. McSwiney, Frank M. Clark and Jonas Waffle, all of whom are officers of the Illinois, Iowa & Minnesota Ry. Co., The Rookery, Chicago. When completed, the belt line will extend from Milwaukee on the north to Rockford on the west, Momence on the south and Gary, Ind., on the east. About 125 miles of the system are already in operation between Rockford and Momence and the construction of the 42 miles between Momence and Gary will begin at once. With one or two minor exceptions, the new belt line will reach all of the large towns in the vicinity of Chicago which are producing carload freight. It will also cross every railroad entering Chicago and will be in position to create and foster manufacturing towns along its lines in Illinois and lower Wisconsin. The principal manufacturing towns which are now reached are Rockford, Dekalb, Aurora, Joliet, Peotone and Momence. Gary, Lowell, Crown Point, Beloit and Janesville will be added when the new extensions are constructed. The company will acquire the Illinois, Iowa and Minnesota, by which the portion already constructed is known, and also the Illinois, Indiana and Gary road and the Milwaukee, Rockford and Eastern. The stretch to be constructed between Rockford and Milwaukee by the way of Janesville and Beloit is 100

miles. When completed, the road will have two lake terminals: Gary and Milwaukee, and will be in position to supply coal to Gary and many other cities.

FREDERICKSBURG & SOUTHERN.—The Virginia Legislature has passed a bill, which the Governor has approved, repealing the law which prohibited the paralleling of the Richmond, Fredericksburg & Potomac R. R. This will provide for the building of the proposed Fredericksburg & Southern Ry., in which Frank J. Gould and others are interested. (See under Electric Railways—"Fredericksburg, Va.")

HARRISVILLE & CORNWALLIS.—Incorporated in West Virginia to build a line from Harrisville to Cornwallis, W. Va., about seven miles. Capital, $10,000. The incorporators are W. S. Stout, A. C. Fisher, H. M. Rymer, B. F. Patton and Anthony Smith, all of Harrisville, W. Va.

IDAHO, WASHINGTON & NORTHERN.—F. A. Blackwell, Pres., Spirit Lake, Idaho, advises us that surveys are being made for proposed extension. Date of letting contracts is indefinite. This railroad is now in operation from McGuires, Idaho, to Newport, Wash., via Rathdrum and Coleman, Idaho, 52 miles. The extension will be built to Metaline, Wash., from Newport, along the Pend d'Oreille River. L. F. McCoy is Ch. Engr., Spirit Lake, Idaho. Previously noted.

INDIAN CREEK VALLEY.—Charles F. Hood, Pres., Connellsville, Pa., advises us that all requirements have been provided regarding the extension of this road from Rogers Mills to Jones Mills, Pa., ten miles.

KENTUCKY.—The Kentucky Coal & Mining Co., of Evansville, Ind., may build a railroad from Waverly, Ky., to Uniontown, Ky. At Uniontown the company will erect a large coal tipple at its coal mines. The company will also sink several new coal shafts and develop the coal fields of Union County and Western Kentucky.

LAWRENCE COUNTY.—Maxwell Coffin, Pres., Little Rock, Ark., states that surveys have been completed for this line from Hoxie via Powhatan and Denton to Smithville, Ark., 21 miles. It is proposed to use 60-lb. rails. The freight traffic will consist of lumber, zinc and iron ores, etc. Grading contracts will be let soon. A 200-ft. drawbridge will be built over the Black River at Powhatan, Ark. N. S. Woods, at Powhatan, is Ch. Engr. Previously noted.

MEXICO.—A press report from Guaymas, State of Sonora, states that the Creston de Cobre Co., of Guaymas, is surveying a railroad route from Cerro de Cobre District, Sonora, west of Carbo Station on the Sonora R. R., to Port Libertad on the Gulf of California, 40 miles long, which will open an outlet to tidewater for a rich mining region. This company has also mines at La Colorada. Tecolote, Port Libertad, is just north of Tiburon Island.

MUSCATINE NORTH & SOUTH.—This company may extend its railway from its present terminus, Elrick Junction, Iowa, to Burlington, a distance of about 20 miles. It is now in operation from Muscatine to Elrick Junction, 28½ miles. Charles Howard, Pres. and Gen. Mgr., Muscatine, Iowa.

NORTH COAST.—This company has been granted authority by the Supreme Court of the State of Washington to condemn a portion of the right-of-way of the Northern Pacific through Union Gap, Yakima County, paralleling the track of the N. P. Ry. for nearly 4,000 ft. The North Coast Co. is expressly given the right to condemn a road through Union Gap provided it does not go beyond a line within 45 ft. west of the center of the Northern Pacific track as now laid. It gives the North Coast ample room to double-track through the gap if it were required. Announcement is made that construction is in progress as follows: Spokane to Seattle, Wash., 378 miles; Spokane to Tekoa, Wash., 41 miles; Spokane to Walla Walla, Wash., 147 miles; and Walla Walla to Kiona, Wash., 68 miles. Extensions are proposed from Portland Junction to Davenport, Wash., 45 miles, and from Walla Walla, to the Salmon River, 100 miles. R. E. Strahorn is Pres. and Mgr.; A. G. Smith is Secy., and F. L. Pitman is Ch. Engr., at Spokane, Wash.

READING, LANCASTER & SOUTHERN.—Surveys are being made for this proposed road (which will extend from Reading, Pa., to Baltimore, Md., 84 miles), from Reading to Delta, Pa., 48 miles, via Mohnton, New Holland, Adamstown and Quarryville. Contract for the entire line has been let to D. R. BREWER, of Mohnton, Pa. Isaac S. Spatz is Pres., Mohnton, Pa.; Ralph E. Shaner, Pottstown, Pa., is Engr.; Sidney C. Long, Secy., Baltimore, Md.

SOUTHERN PACIFIC.—About $3,000,000 would be required, according to E. E. Calvin, Vice-Pres. and Gen. Mgr., to construct the 134 miles of road from Mojave to Keeler, Cal., necessary to provide the city of Los Angeles with railroad facilities for conveying construction material to the source of the proposed municipal water supply at Owens Lake. At one time the Southern Pacific had this route outlined, but gave up the idea. But the Los Angeles water project now demands that a railroad be provided by some one in order to get the large quantities of construction material on to the ground and along the route of the great water course. Manager Calvin roughly estimated that if the municipality should build a road for its own use it would be expending on the undertaking more than twice as much for the transportation as if the road were already built. Noted last week.

VANCOUVER ISLAND & EASTERN.—We are officially advised that this railway will be about 1,000 miles long, running from Victoria, B. C., to Seymour Narrows and from Seymour Narrows to Edmonton, Alta., over the original Canadian Pacific Ry. survey. Right-of-way is secured. Capital has not been obtained yet. T. W. Patterson, Victoria, B. C., is Pres. Noted on Feb. 6.

ELECTRIC RAILWAYS.

NEW YORK, N. Y.—Through their counsel, Masten & Nichols, Adrian H. Joline and Douglas Robinson, the receivers for the New York City Railway Co., applied to the United States Circuit Court for the Southern District of New York, on March 7 for authority to issue receivers' certificates to the amount of $3,500,000. This amount of money, they say, is imperatively needed to make necessary improvements in the roadbeds, rolling stock and other property of the company, and to provide adequate insurance and get sufficient additional equipment to give the service which they as well as the Public Service Commission consider desirable. Exclusive of the amount required to rebuild the car barns at 96th and 97th Sts., which were destroyed by fire on Feb. 29, and to substitute new cars for those destroyed in the fire—this amount being estimated at at least $1,000,000—the receivers figure out that they need the following sums: For the reconstruction of rolling stock, $900,000; rehabilitation of tracks, paving, etc., $400,000; payment for transformation of tracks on First Ave. line between 59th and 125th Sts., from horse road to underground trolley, $27,305; completion of car barns and repair shops at 146th St. and Lenox Ave., in excess of insurance from fire of April, 1907, $174,463; new cars to replace those of the central crosstown line destroyed by fire and in excess of insurance due, $330,440; installation of sprinkler systems, to insure sufficient and adequate insurance of property, $507,279; total, $2,589,487. A hearing on the motion for the issue of the receivers' certificates will be held on March 19.

BABYLON, N. Y.—The South Shore Traction Co. has accepted the franchise which was granted by the Town Board and Board of Highway Commissioners recently. The franchise is for 99 years, and after the first 20 years the company pays a small bonus to the town until 1957. After that period the company is required to pay into the town treasury 3% of its gross receipts. It is stated that the work of construction between Babylon and Amityville will commence soon. Noted on Feb. 20.

GREENVILLE, PA.—James M. Campbell, of Mercer, Pa., is promoting an electric railway which will be built to connect Greenville, Mercer and Sharon. Franchises have been applied for in Greenville and Sharon. The Greenville line is to be built first, to be followed by the Sharon-Mercer line.

The City Council has granted the Mercer Construction Co. a franchise for an electric railway. The company has the right-of-way between Greenville and Mercer and between Mercer and Sharon, and the necessary capital back of it to construct the proposed line.

WEST CHESTER, PA.—At a recent meeting of the stockholders of the West Chester & Wilmington Electric Ry. Co., the Eastern Railway Construction Co. was organized to build this line from Wilmington, Del., to West Chester. The company is chartered with a capital stock of $10,000. Work on the road will start soon. At the meeting the preliminary steps for merging the Delaware and Pennsylvania companies were taken and the merger will be completed at the next meeting. Noted on Feb. 13.

WASHINGTON, D. C.—A bill to authorize the Baltimore & Washington Transit Co. to extend its line to the District of Columbia has passed the United States Senate. The proposed line is to be completed within two years. Wm. A. Mellen, 1808 Kalorama Ave., is Pres. and Gen. Mgr.

RITCHIE, MD.—A bill to incorporate the Washington & Maryland Electric Railway Co., to build a line from Washington, D. C., to Ritchie Station, on the Chesapeake Beach Railroad, ten miles, has been introduced in the Maryland Legislature. The incorporators are Horace Crozier, Samuel C. Cox, T. Van Clagett, Snowden Hill, Alfred G. Shaw, Ernst Gerstenberg and Albert Cary, of Washington, D. C. Capital stock, $25,000.

MYERSVILLE, MD.—A bill incorporating the Catoctin & Pen-Mar Ry. Co. has been introduced in the Maryland Legislature. The incorporators named in the bill are Henry M. Warrenfeltz, Albert L. Hauver, Dr. Alvey J. Smith, George R. Stottlemyer, Michael Klein, C. W. Blickenstaff, J. David English, Gideon O. Horne, I. A. Fox, Worth B. Stottlemyer and J. W. Brown. The capital stock is to be $50,000, with the power of increasing it to $500,000. Authority is given to construct and operate a railroad by electricity or steam from Myersville, Frederick County, Md., to Pen-Mar, in Washington County, Pa. The company is also empowered to generate and sell electricity and it may consolidate with any other railroad company.

CHRISTIANSBURG, VA.—The Montgomery Electrical Co. of Christiansburg has been incorporated to build the proposed electric railroad from Christiansburg to Cambria. Capital stock, $5,000 to $50,000. J. L. Vaughan of Shawsville, Va., is Pres.; E. S. Hagan is Vice-Pres., and A. A. Phlegar, Jr., is Secy. and Treas., at Christiansburg. On Jan. 30 it was noted that "the charter for an electric railway between Christiansburg and Cambria plans to begin work on the line in the spring. It will be about 2¼ miles long."

FREDERICKSBURG, VA.—Application for charter has been made by the Fredericksburg & Southern Ry. Co. The charter authorizes the company to construct and operate an electric railway from a point near Ashland, in Hanover County, to Fredericksburg and northwestwardly, and also authorizes the running of a street railway in the city of Fredericksburg, subject to the consent of the City Council. The officers of the company are W. C. Whitner, Pres.; E. J. Smith, Vice-Pres.; Alvin T. Embrey, Secy. and Treas., and the following directors: William C. Whitner, E. J. Smith, C. W. Jones, A. P. Rowe, James T. Lowery, A. W. Embrey and Alvin T. Embrey, of Fredericksburg.

SISTERSVILLE, W. VA.—E. L. Benton, C. E., informs us that the matter of building an electric railway between Sistersville and Middlebourne, W. Va., 12½ miles, has been abandoned for the present. Noted on Feb. 6.

LOUISVILLE, KY.—The Louisville Ry. Co. will issue $1,000,000 of preferred stock to cover the cost of contemplated improvements. Company has decided to increase the capacity of the Jacob St. power station by the addition of a 3,000-KW. turbo-generator unit. Also to extend the Bardstown line and build an extension to the State Fair. T. J. Minary is Gen. Mgr.

CHICAGO, ILL.—On March 4, Judge C. Richter, in the Circuit Court, Laporte, Ind., on application of stockholders representing 2,000 shares of stock, appointed George F. Mull, of Indianapolis, receiver for the Chicago-New York Electric Air Line Co., for the Co-operative Construction Co., and for the Goshen, South Bend & Chicago Railway Co. The Western Securities Co., the Gary & Interurban Co. and the Hancock Co. also are made defendants. The receiver has filed a $50,000 bond. The Chicago & New York Air Line is capitalized at $5,000,000. Alexander C. Miller, of Aurora, Ill., is Pres. According to an announcement of the company, it purposes to shorten the distance between Chicago and New York to 750 miles and to reduce the running time to ten hours. The line has been graded between Chicago and Laporte, Ind., and several miles of rails have been laid. Last May an attempt was made by several stockholders to have a receiver appointed for the company, but the court refused to take such action at that time.

TOPEKA, KAN.—E. M. Lambkin, 314 Park Ave., Kansas City, Mo., has made application to the Secretary of State for a charter for an electric railway line. Capital, $10,000,000. The company will be known as the Kansas City & Kansas Southwestern R. R. Co. It will run from Kansas City to Topeka and Independence, Kan. The directors are J. E. Martin, of Minneapolis; W. L. Moyer, of New York; Whit Laming of Tonganoxie, Kan.; S. W. Brewster, of Chanute, Kan.; Harry E. Hooper of Indianola, Kan.; C. S. Dudley, of Minneapolis; and Mr. Lambkin.

GREELEY, COLO.—The County Commissioners have granted E. M. Reaser, of the Greeley & Denver Interurban Railway Co. an extension of time to April 1 on his franchise for an electric railway between Greeley and Denver. Right-of-way has been secured, but more time was needed for filing maps. Nearly $23,000 has been spent for rights-of-way and surveys. Mr. Reaser states he has ample financial backing and will begin construction April 1. Previously noted.

SAN ANGELO, TEX.—J. H. Ransom, Pres. and Gen. Mgr. of the San Angelo Traction Co., Hereford, Tex., states that the proposed street railway will be three miles long. J. A. Williams is Secy. and Treas., San Angelo.

BROWNSVILLE, TEX.—Application for a street railway franchise has been made by S. K. Hallam, L. H. Hallam, John G. Fernandez and A. C. Brokaw, all of Brownsville.

WELLANDPORT, ONT.—The Dunnville, Wellandport & Beamsville Elec. Ry. Co. will soon submit propositions to the municipalities through which its line is to run. The provisional directors are: James A. Ross, Pres.; F. R. Lalor, M. P., Vice-Pres.; W. J. Aikens, Secy., Mayor Smith, Thomas Marshall, P. L. Edgecombe, M. P. Parry, F. J. Ramsay and E. E. Anderson. As noted on Jan. 2, James A. Ross of Wellandport, Pres., has stated that this company "will begin construction work next spring. The line is to extend from Dunnville to Wellandport, St. Anns and Beamsville. The section from Dunnville to St. Anns, a distance of about 15 miles, will be built in the summer of 1908. The company has an authorized capital stock of $400,000."

PRESCOTT, ONT.—J. B. Gaughn, of Brockville, Ont., is reported to be promoting a plan to build an electric railway along the banks of the St. Lawrence River from Prescott for a distance of 16 miles.

EDMONTON, ALTA.—In addition to the $30,000 already voted, the ratepayers have voted $48,000 for rails and other materials for the municipal street railway system.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

BARRE, MASS.—Preparations are being made by the Francis Willey Co. for the construction of a new dam at the former site of the American Powder Co.'s plant in Barre. The water power will be used to generate electricity for lamps and motors for the South Barre mill.

SAYBROOK, CONN.—The Shore Line Electric Ry. Co. has awarded a contract to the SPERRY & SELLERS CO. for the construction of its proposed power station in Saybrook. Plans are also being drawn for a car barn.

HARTFORD, CONN.—Bids are asked until noon, March 17, by Morgan G. Bulkeley, Pres. of the Connecticut River Bridge and Highway Comn., Aetna Life Bldg., for installing the lighting equipment on the new bridge across the Connecticut River. The bids must cover the complete installation of the lighting system for the 4-light fixtures surrounding the trolley poles on the bridge, but will not include the fixtures, globes and lamps.

CHATHAM, N. Y.—The Chatham Electric Light, Heat & Power Co. is making arrangements to establish a power service for Chatham and vicinity, and will install a 200-HP. boiler soon. The company plans to extend its transmission lines from Ghent to the village of Philmont, a distance of six miles, to furnish electricity for lighting. J. F. Wilson, Chatham, is Supt.

BUFFALO, N. Y.—The City Council has been petitioned for an appropriation of $500,000 for beginning the construction of a conduit system for distributing electric light and power for municipal purposes. Frank C. Perkins, Erie County Bank Bldg., is interested.

BATH, N. Y.—E. J. [illegible]wer, Pres. and Des. Engr., Citizens' [illegible] Service Co., of Bath, writes us th[illegible] company has been granted a franch[illegible] contract for street lighting in Bath [illegible] and Savona, three villages, five miles [illegible] in the Cohocton Valley. The plant [illegible] built in Bath, and will be constructed [illegible]ssed brick and steel, and will be oper[illegible] gas-producer engines. Two 200-HP. [illegible] will be installed when the plant [illegible] and foundations will be laid for [illegible]. The company will install three [illegible]W. alternating current direct-connected [illegible]rators. Generated voltage will be ra[illegible] 2,200 volts, at the suburbs of Bath, [illegible]rried to Avoca and Savona at 6,600 volts. [illegible] will be 105 arc lamps of 200 c. p. [illegible]000 incandescent lamps of 16 c. p. [illegible]stem will cost about $75,000. No contr[illegible] have been let, as the matter is before [illegible] Public Service Commission. Financial [illegible] have been completed and steps will [illegible] taken toward construction as soon as [illegible] of the Public Service Commissio[illegible] received.

ATLANTIC CITY, N. J.—[illegible] contract for furnishing corner and i[illegible] lighting standards, bids for which [illegible] received Feb. 24, has been awarded to [illegible]ETHLEHEM FOUNDRY & MACHINE CO., of South Bethlehem, Pa., for $34,177. J. [illegible] Hackney is City Engr.

NEWVILLE, PA.—The [illegible] for construction of an electric light system for this city has been awarded to JOHN HOSFIELD, of Shippensburg, Pa.

ELLWOOD CITY, PA.—Fire caused by a bursting transformer at the plant of the Ellwood Power Co. destroyed the building and damaged the machinery to the extent of $60,000. The building will be rebuilt at once, and new equipment installed. [illegible] A. Roeloff, of this city, is Pres.

RICHMOND, VA.—A report has been submitted by Edward W. Trafford, Consult. Engr., Chamber of Commerce Bldg., Richmond, to a joint meeting of the Council ommittees on Water and Electricity on a proposition to prepare complete plans for a municipal electric light plant on the site of the old pump-house, with surveys and maps of the river and water-power of the city. The plans are to include a transmission line to the new pump-house, the installation of electrical pumps at the pumping station and a complete system of poles and wires for street lighting covering the entire city.

PORTSMOUTH, VA.—Bids are asked until April 11, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing electric conduits and for wiring, plumbing and gas-piping.

ADAMSTON, W. VA.—Fire caused by a short circuit at the power plant of the Fairmont & Clarksburg Traction Co. damaged the plant to the extent of $50,000. New equipment will be ordered and the plant rebuilt at once. The general offices of the company are at Fairmont, W. Va. S. B. Miller is Ch. Electrician.

MILLEDGEVILLE, GA.—The management of the Oconee River Mills will expend about $60,000 to develop water power on the Oconee River and establish an electric light and power plant. It is estimated that between 500 and 1,000 HP. will be developed and transmitted for lighting and manufacturing. The company has secured franchise from city.

AUGUSTA, GA.—The Twin City Power Co. has been authorized to construct a dam across the Savannah River, above Augusta, for power purposes. Hugh C. Middleton is Mgr.

AMERICUS, GA.—The Americus Railway & Light Co., A. N. Waller, Pres., has awarded the following contracts for power plant machinery aggregating $100,000: WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., electrical equipment in duplicate, including two steam turbines, with turbo-generators, of 550 HP and actual speed of 3,600 r. p. m.; WHEELER CONDENSER & ENGINEERING CO., Carteret, N. J., condensing apparatus; CASEY & HEDGES CO., Chattanooga, Tenn., boilers in duplicate, each of 500 HP. and equipped with superheaters; HENRY R. WORTHINGTON, 114 Liberty St., New York, pumps, including two boiler-feed, one centrifugal and one triplex pump, operated by 100-HP. motor; GENERAL ELECTRIC CO., Schenectady, N. Y., equipment for street lighting system, capable of furnishing 120 arc lights; 80 street lights of 3,000 c. p. each to be furnished at present, and STANDARD BRICK CO., Macon, Ga., 300,000 brick for construction of power-house, according to the "Manufacturers' Record." The building will be of brick; fireproof, with steel smokestack, 150 ft. high and 5½ ft. in diameter, resting on base of brick and concrete. Plant to be complete in 60 days.

MACON, GA.—We are officially advised that the Central Georgia Power Co. (formerly the Bibb Power Co.) is planning to build a dam 1,400 ft. long and 100 ft. high on the Ocmulgee River. The company will erect four 2,500-KW. units, operated at ¾-gate normal output, to transmit power to Macon and adjacent towns. Estimated cost, $1,850,000. Charles F. Howe, Grand Bldg., Macon, is Ch. Engr. Noted on Feb. 13.

BESSEMER, ALA.—Bids are asked until April 11 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for conduits, wiring, etc., to be installed in the proposed post-office building at Bessemer.

OXFORD, MISS.—The contract for machinery for the proposed municipal electric light plant will be let about April 1. Contract for building is let. J. R. Shinault, of Oxford, is Engr.; R. S. Adams is Mayor.

CHATTANOOGA, TENN.—The construction of the proposed dam of the Chattanooga-Tennessee River Power Co., the contract for which has been let to ELLIS H. BAILLIE, 26 Court St., Brooklyn, N. Y., involves 160,000 cu. yds. concrete, 40,000 cu. yds. earth excavation and 60,000 cu. yds. rock excavation. Quarries will be operated in connection with the work. Mr. Baillie will open offices in the James Building, Chattanooga.

We are advised by Richard Schaddelee, Gen. Mgr. of the Child, Hulswit & Co., Inc.

Michigan Trust Bldg., Grand Rapids, Mich., that they have practically decided to build a 1,000,000-[illegible] gas-holder for the Chattanooga Gas Co., for which they are the executive managers. James M. Robb, Gen. Mgr. of the Gas Co.

LIMA, OHIO.—The City Council has voted to issue $[illegible] of bonds for a municipal electric lighting system. The Council proposes to accept the estimates made by E. R. Young, of Toledo, Ohio, who agrees to construct the plant at the price named.

HUDSON, OHIO.—D. M. Hosford, Engr., Cleveland, Ohio, is preparing plans for an electric light plant for Hudson.

TERRE HAUTE, IND.—The Terre Haute, Indianapolis & Eastern Traction Co. intends to enlarge its power-house and install a 500-KW. generator. T. F. Grover, Terre Haute, is Gen. Mgr.

NOBLESVILLE, IND.—It is the intention of the Noblesville Gas & Improvement Co. to issue $100,000 of bonds, the proceeds of which will be used to build an artificial gas plant, to cost from $60,000 to $75,000. C. R. Heath is Pres.

CHICAGO, ILL.—A permit has been issued to the management of the Presbyterian Hospital, Congress and Wood Sts., to construct a power-house at 301 Hermitage St. Cost, $70,000.

ROYALTON, WIS.—Two water power sites have been purchased on the Wolf River, near Royalton, by Leander Choate, Frank H. Josslyn, Emil H. Steiger and Casper Faust, all of Oshkosh, Wis. It is proposed to erect a power plant and develop between 2,000 and 2,500 HP. If possible, the electrical energy will be transmitted to Oshkosh to be used for lamps and motors. A delegation of business men from New London have petitioned the owners of the water power to furnish that city with electricity.

QUASQUETON, IOWA.—Stephen B. Howard, Mullen Bldg., Waterloo, Iowa, has secured a franchise to construct an electric light plant in Quasqueton.

HERINGTON, KAN.—The contract for the construction of the municipal electric light plant and water-works system has been awarded to the SQUIRE ELECTRIC CO., 113 East 18th St., Kansas City, Mo., for $32,750. C. H. Randall is Chn. of the Water and Light Comn.

ABERDEEN, S. DAK.—The Aberdeen Light & Power Co. has let contract for the machinery for its new plant with the MINNEAPOLIS STEEL & MACHINERY CO., 28th and Minnehaha Sts., Minneapolis, Minn., and for electrical equipment with the ELECTRIC MACHINERY CO., 14th Ave. and Polk St. N. E., Minneapolis, Minn. The company was recently organized with a capital stock of $200,000.

DOUGLAS, WYO.—We are officially advised that the contract for designing and constructing the La Prele dam has been awarded to the AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston. This dam is to be in the La Prele Canon, near Douglas, and will create a storage reservoir for irrigating about 3,000 acres of land. The dam will be 136 ft. high and about 300 ft. long on the crest, in addition to the spillway. Work will be commenced early in the spring.

LINNEUS, MO.—The city will rebuild electric light plant, constructing a 40 × 40-ft. cement building. The city will install a 100-HP. Corliss engine and boiler, electric switchboard, etc. O. P. Vroom is Engr.-in-Charge; L. O. Knapp, Arch.; H. E. Symons, Mgr.

TEMPLE, TEX.—Gulf, Colorado & Santa Fe Ry. Co., C. F. W. Felt, Ch. Engr., Galveston, Tex., will install an electric light apparatus in hospital now in course of erection. Bids will be invited soon.

PORT ARTHUR, TEX.—The Port Arthur Water Co. will install additional machinery, it is stated, including engine and generator. J. A. Young, Port Arthur, is Mgr.

FORT WORTH, TEX.—Bids are asked until April 7 by J. J. Nunnally, City Audr., for constructing and installing a lighting system for the streets of this city. The system will have 1,200 c. p., 6.6 amp. alternating-current series arc lamps.

ALAMOGORDO, N. MEX.—Merrill H. Fisher is preparing plans to construct a power-house, 120 × 36 ft. There will be a boiler-room, 30 × 33 ft., and an engine-room, 33 × 50 ft. The building, exclusive of machinery, will cost $5,000.

TUMWATER, WASH.—The PACIFIC COAST PIPE CO., 625 First St., Seattle, Wash., has been awarded the contract to furnish nearly two miles of wooden stave pipe for the 12,000-HP. electric power plant of the Great Northern Ry. Co., in Tumwater Canon, which is to furnish electric power to operate trains through the Cascade tunnel. Frank M. Baum is Mgr. of the pipe company; A. H. Hogeland is Ch. Engr., Great Northern Ry Co., St. Paul, Minn.

CLIFFS (Connell post-office), WASH.—George Jacobs, of Portland, Ore., has purchased the water power and lands adjacent to the falls in the John Day River, three to five miles distant. It is stated that he will develop at least 600 HP., all of which will be utilized in Cliffs.

RED BLUFF, CAL.—Leon Bly has filed a notice of the appropriation of 6,000 ins. of water to be taken from South Battle Creek. The water is to be diverted by means of a 48-in. inverted siphon and carried by flume and through a tunnel to the place of use. The water power is to be used to generate electricity.

YUMA, ARIZ.—Contract has been awarded to FAIRBANKS, MORSE & CO., Franklin and Monroe Sts., Chicago, Ill., for furnishing two 50-HP. producer gas engines to operate the pump which is to be installed under the Yuma irrigation project, Cal.-Ariz. Contract has also been awarded by the Secretary of the Interior to the WESTERN AMERICAN GAS CO., of Phoenix, Ariz., for furnishing a plant for producing gas to operate these engines. This plant will use crude oil as a fuel, the gas being similar to producer gas made from bituminous coals. According to the terms of the contracts, the engines are to be delivered within 60 days from notice of award and the gas producing plant within 90 days. The price quoted for the engines is $5,050, and that for the gas plant, $3,000. It is expected that about 10,000 acres near Yuma will be irrigated during 1908 by water pumped from the Colorado River.

DERBY, NEV.—H. W. Esden, Pres. of the Wadsworth Power, Light & Water Co., intends to build a power plant to furnish power to Fallon, Fairview, Wonder and Rawhide. He has incorporated a company and will begin the construction of a power plant soon on the Truckee River, near Derby. The company is known as the Sierra Power Co. with a capitalization of $100,000, and following are the incorporators: J. G. Harris, H. W. Esden and E. R. Dodge.

BRIDGEWATER, N. S.—Phil. H. Moore, Consult. Engr., Micmac Gold Mining Co., 2 Rector St., New York, N. Y., advises us that contracts probably will be let in May for construction of power plant near Bridgewater. The plant will be built on a tributary of the La Have River, nine miles from the mines, where it is intended to build a dam 200 ft. long and 15 ft. high. The dam will be constructed of concrete, logs or timber. A 6 × 8-ft. flume, 1,000 ft. long, and 400 ft. of 8-ft. pipe will be placed. It is the intention of the management to develop 400 HP. from a 100-ft. head now, and provisions will be made for developing additional power as work at the mines progresses, when additional mining machinery will be installed. At the mills on the mining property there will be a transformer house. The company will need two water-wheels, two generators, motors, turbine pumps, electric hoists, drills, tools, mining machinery, nine miles of wire and about 500 cedar poles. It is estimated that the cost will be from $45,000 to $50,000. Noted on Jan. 23.

MONTREAL, QUE.—The City Council is discussing the advisability of installing an electric plant at a cost of $182,000. John R. Barlow is City Surv.

HAMILTON, ONT.—The Board of Works has recommended the purchase of gas, arc and Nernst lamps to the value of $44,380. E. G. Barrow is City Engr.

The City Council has appointed P. W. Sothman, Ch. Engr. of the Hydro-Electric Comn., to prepare plans and specifications for the proposed municipal electric lighting plant.

SASKATOON, SASK.—The Saskatchewan Power Co. is applying for incorporation, with a capital of $1,000,000, to develop power on the Saskatchewan River here. J. F. Cairns, Saskatoon, Sask., is interested.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

RUTLAND, VT.—The date of opening bids for constructing a riveted steel bridge, 75-ft. span and 16-ft. roadway, across East Creek and Crescent St., has been extended from March 2 to March 16. A. C. Grover is City Engr.

FITCHBURG, MASS.—We are officially advised that the following bids were received on March 3 by the Board Street Commissioners for removing the present wooden bridge and granite abutments and the maintenance of traffic during the construction of the new bridge and constructing an arch bridge complete including all excavation and incidental work: The Ley Construction Co., Inc., Springfield, Mass. (three bids), $10,990, $12,100, $14,530; Scheuermann & Peck, Albany, N. Y., $11,200; P. B. Elkins Co., Boston, Mass., $11,843; S. S. & H. N. Lawrence, Fitchburg, $12,400; Hassam Paving Co., Worcester, $12,700; Byrne Contracting Co., Boston, Mass., $13,252; Aberthaw Construction Co., Boston, Mass., $13,300; Hanscom Construction Co., Boston, Mass., $14,000; (stone face), $15,500; Simpson Bros. Corporation, Boston, Mass., $14,650; Hennebique Construction Co., New York, N. Y., $16,450; W. A. Murtfeldt Co., Boston, Mass., $20,300; F. A. McCauliff, Fitchburg, $14,256. David A. Hartwell is Clk. Bd.

HARTFORD, CONN.—The Connecticut River Bridge and Highway Commission has awarded the contract for 205 tons of steel plate girder roof beams to cross the railroad tunnel at the Morgan St. approach to the new bridge to the BERLIN CONSTRUCTION CO., Berlin, Conn. John T. Henderson is Deputy Ch. Engr. Comn. Noted March 5.

CHARLOTTESVILLE, VA.—W. C. Thacker, Carters Bridge, Va., is preparing plans for the construction of a bridge to be constructed by Albemarle County, over the Rivanna River. Estimated cost, about $8,000.

PARKERSBURG, W. VA.—The Parkersburg Bridge Co. has been incorporated by S. C. Williams, Joseph G. Lee, Jason H. Brooks, East Liverpool, Ohio, and others, to construct a bridge to connect Parkersburg with Belpre, Ohio. Estimated cost, $400,000.

HOOKERTON, N. C.—The Hookerton Terminal Co., which has been incorporated by W. O. Dixon and others, will construct a bridge across the Moccasin River.

FORT BARRANCAS, FLA.—The contract for rebuilding a bridge over Bayou Grande on road to Fort Barrancas National Cemetery, has been awarded to ALGERNON BLAIR, Montgomery, Ala., at $18,895. Col. J. W. Pope is Q. M., U. S. A., Atlanta, Ga.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., March 28, by the Board of County Commissioners for the construction of culvert on Pitney road in East Cleveland village. A. B. Lea is County Surv.

LISBON, OHIO.—The County Commissioners have awarded the contract for a steel and concrete bridge in Madison Township to the CAPITOL CONSTRUCTION CO., Columbus, Ohio.

NEWARK, OHIO.—Bids are asked by the Commissioners of Licking County, until 1.30 p. m., March 30, for the construction of the steel superstructure of the Church St. 204-ft. span bridge here.

CANAL DOVER, OHIO.—Only one bid, that of J. B. Westhafer, New Philadelphia, Ohio, was received on March 2 by the Commissioners of Tuscarawas County for repairing the steel bridge on Wooster St., at $4,800. A. V. Denahey is County Audr.

SALEM, IND.—Bids are asked until 1.30 p. m., March 14, by Sam G. Ellis, County Audr., for the construction of two bridges over Brock Creek, Salem.

*BENTON HARBOR, MICH.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a steel bridge over the St. Joseph River, to consist of a swing or bascule channel and two approach spans and concrete substructure for same. Bids are asked until March 19.

CHICAGO, ILL.—The Engineering Committee of the Drainage Board on March 2 decided to have a bascule bridge constructed across the hicago River at Twelfth St. Estimated cost, $350,000.

SUPERIOR, WIS.—WHITNEY BROS. were awarded the contract on Feb. 25 for wrecking and constructing the approaches to the interstate bridge.

MILWAUKEE, WIS.—Bids are asked until 10.30 a. m., March 27, by the Board of Public Works, Charles J. Poetsch, Chn., for constructing Sec. 2 of the superstructure of the Washington Ave. viaduct.

EAU CLAIRE, WIS.—We are officially advised that the following bids were received on March 4 by the City Council for the construction of a bridge and movable dam across the Chippewa River: (a) Bridge and dam, (b) bridge only: Hayes Bros. Co., Janesville, Wis., (a) $67,300, (b) $44,465; Penn Bridge Co., Beaver Falls, Pa., (a) $56,573, (b) $38,350; Union Engineering & Construction Co., Chicago, Ill., (a) $55,150, (b) 34,900; Skobis Bros. Co., Milwaukee, Wis., (a) $53,881, (b) $36,980; Morava Construction Co., 85th St. and Stewart Ave., Chicago, Ill., (a) $52,000, (b) $34,880; Modern Steel Structural Co., Waukesha, (a) $51,264, (b) $33,377; Worden-Allen Co., Milwaukee, Wis., (a) $51,000, (b) $35,000; Long & McAnulty, Eau Claire, (a) $48,535, (b) $33,627; Minneapolis Steel & Machinery Co., 28th and Minnehaha Sts., Minneapolis, Minn., (a) $48,225, (b) $33,275; The Hennepin Bridge Co., 968 Laurel St., Minneapolis, Minn., (a) $47,970, (b) $32,250. William Danforth is City Engr.

BUFFALO, MINN.—Bids are asked until 1.30 p. m., March 31, by H. C. Brasie, County Audr., for constructing a bridge over Crow River in the town of French Lake; bids are also asked for furnishing material for the bridge.

MANKATO, MINN.—The City Council has appropriated $6,000 and the State the same amount toward the construction of a bridge to be erected over the Minnesota River. M. B. Haynes is City Engr.

ST. PAUL, MINN.—Bids are asked by George T. Redington, Secy. Bd. Park Comrs., until April 6 for constructing a steel or concrete bridge along the Mississippi River boulevard, 256 ft. long and 40 ft. wide.

FRENCH LAKE (Annandale post-office), MINN.—Bids are asked until March 31 by H. C. Brasie, County Audr. Wright County, for constructing a steel bridge across Crow River. Estimated cost, $10,000.

LINCOLN, NEB.—The Standard Bridge Co. submitted the lowest bid on Feb. 24 for the construction of all bridges that may be ordered in Lancaster County one year from date of contract. W. L. Dawson is County Clk.

BROOKINGS, S. DAK.—Bids are asked until 2 p. m., April 8, by the Brookings County Commissioners for furnishing all material and labor for the construction of a 28-ft. cement bridge on section line between Secs. 15 and 16, Elkton Township. P. J. Murphy is County Audr.

WATERTOWN, S. DAK.—The County Commissioners on Feb. 27 awarded the contract for the construction of three steel bridges for Codington County to L. N. BUTLER, 126 South Twelfth St., Minneapolis, Minn., at $4,850.

PRESCOTT, ARK.—The MORAVA CONSTRUCTION CO., 85th St. and Stewart Ave., Chicago, Ill., has been awarded the contract at $11,200 for the construction of a steel bridge across Little Missouri River at McIntosh Bluff, Nevada County.

*ROSENBERG, TEX.—The contract for the construction of a steel bridge across Brazos River has been awarded to the OTTUMWA BRIDGE CO., Ottumwa, Iowa, at $27,000. List of bidders noted March 5.

CATHLAMET, WASH.—Bids are asked until 1.30 p. m., April 6, by the County Commissioners for the construction of a wooden draw-bridge over Deep River.

RENO, NEV.—The City Council has awarded the contract for the construction of the wooden stringer bridge on Second St. to the SAN FRANCISCO BRIDGE CO., at $21,500.

POCATELLO, IDAHO.—Six bids were received on Feb. 18 by the Commissioners of Bannock and Bingham Counties for the construction of the Tilden bridge across the Snake River at Bansford. THE DENVER BRIDGE CO. was awarded the contract, at $10,400. W. P. Havenor, Pocatello, is Engr.-in-Charge.

SUSSEX, N. B.—Bids are asked by C. H. La Billois, Chief Comr., Dept. Pub. Wks., Fredericton, N. B., until March 23, 1908, for constructing the concrete substructure and approaches of Apohaqui bridge over the Kennebecasis River.

ST. BONIFACE, MAN.—Plans have been completed by the Department of Public Works, Ottawa, Ont., for the construction of a steel bridge to be erected across the Seine River here. Estimated cost, $60,000. Fred Gelinas is Secy. Dept. Pub. Wks., Ottawa, Ont. Joseph Greenfield is Resident Arch., Winnipeg, Man.

*VANCOUVER, B. C.—Bids are asked until noon, April 4, by the City Clerk, for the manufacture and erection of the new bridges over False Creek at Westminster Ave. and Granville St. Estimated weight of structural steel, about 2,800 tons. Waddell & Harrington, Kansas City, Mo., are the Consulting Engrs.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

NORTHAMPTON, MASS.—We are officially advised that Chas. A. Rich, Arch., 320 Fifth Ave., New York, is preparing plans for a 4-story L-shaped dormitory for the Smith College, Northampton. It will cost about $70,000 and will be built of stone, brick and terra cotta. Estimates will be taken at once.

WILLIAMSTOWN, MASS.—Robins & Oakman, 27 East 22d St., New York, advise us that they are revising plans and will receive bids in about a month for a 3-story dormitory for Williams College, Williamstown. Cost, $75,000.

SPRINGFIELD, MASS.—E. J. PINNEY has secured contract for erecting an apartment house at Main and Central Sts., for Emil Wunch, 56 Howard St., at $100,000.

NEW HAVEN, CONN.—Robertson & Potter, Archs., 160 Fifth Ave., New York, are preparing plans and will receive bids about May 1 for a 5 or 6-story dormitory for the Yale University, New Haven. Arthur T. Hadley, Pres. Cost, $150,000.

STAMFORD, CONN.—Bids are asked by J. G. Houghton, First Selectman, until March 26 for the erection of the West Side school. Boring & Tilton, 32 Broadway, New York, N. Y., are Archs.

NEW YORK, N. Y.—Thain & Thain, Archs., New York, N. Y., advise us that contracts will be let in about ten days for a 6-story warehouse, to be built at 14 West 66th St. for Whitney Lyon, of Larchmont, N. Y. The building will be constructed of brick and stone, will be fireproof, 25 × 100.5 ft.

We are officially advised that Neville & Bagge, Archs., 217 West 125th St., are taking estimates on a 12-story brick, stone and terra cotta loft and office building, to be erected at 18 West 27th St. The building will be 25 × 91 ft., will cost $120,000, and will be owned by the James R. Livingston Construction Co., 32 Nassau St., New York.

The following bids were received March 5 by the Department of Parks, Henry Smith, Pres., for the erection and completion of an addition to the Metropolitan Museum of Art, to be known as the library wing (addition G), located in Central Park, on the west side of Fifth Ave.: J. F. Walsh & Bros., 351 Park Ave., $71,554; Calumet Const. Co., 15 East 59th St., $77,643; J. H. Parker Co., 225 4th Ave., $79,985; Guidone & Gellardi, 1 Madison Ave., $82,000; Kelley & Kelly, 45 East 42d St., $83,862; George Vassar's Sons, 1170 Broadway, $83,925; T. J. Waters, Park Ave. and 125th St., $83,998; M. Reid & Co., 114 West 39th St., $84,000; F. T. Nesbit Co., 116 Nassau St., $84,400; Richard E. Henningham, 1 Madison Ave., $84,500; Theodore Cockerell & Sons, 147 Columbus Ave., $84,443; J. C. Robinson & Son, 1 Madison Ave., $84,487; Clarke & Stowe, 221 Greenpoint Ave., Brooklyn, $85,791; P. Gallagher, 1181 Broadway, $89,000; P. J. Brennan & Son, Fuller Bldg., $89,000; O'Connell & Hanna, 271 West 125th St., $89,200; J. Kennedy & Co., 1133 Broadway, $89,624; H. S. Fox, $88,000; Isaac Hopper, 1170 Broadway, $88,163.

NEW YORK, N. Y.—We are officially advised that Elliott Lynch, Arch., 341 Fifth Ave., is preparing plans for a 4-story parochial school building for the St. Savior Congregation, Boro. of Brooklyn.

The following bids were received by Robert W. Hebberd, Comr. Dept. Public Charities, on March 9, for the completion of the abandoned contract of the Church Construction Co., dated Dec. 12, 1905, for the erection and entire completion of the new Municipal Lodging House in the Boro. of Manhattan, situated approximately 400 ft. east of First Ave. and on the southerly side of 25th St., the City of New York, together with the abandoned supplemental contract dated June 7, 1907, for the completion of a boiler pit, caisson work, new foundation work, etc.: George Hildebrand, 38 Park Row, $244,400; Thomas B. Leahy Building Co., 6 East 42d St., $253,209; Luke A. Burke Sons Co., 25 West 42d St., $257,000.

ROCKAWAY PARK (Far Rockaway post-office), N. Y.—We are officially advised that W. A. L'HOMMEDIEU & CO., 114 East 23d St., New York, have been awarded contracts for residences, to be built at Belle Harbor, L. I., near Rockaway Park, for Frank M. Clute and Charles A. Johnson. Marvin & Davis are Archs., 1133 Broadway, New York.

ITHACA, N. Y.—Bids are asked until 3 p. m., April 15, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction of the proposed U. S. post-office here.

BATAVIA, N. Y.—Robert North, Arch., 1326 Prudential Bldg., Buffalo, N. Y., let general contract to H. H. EDGERTON, 30 S. Goodman St., Buffalo, and furnace heat to the AMERICAN WARMING & VENTILATING CO., Elmira, N. Y., for a 1-story and basement stone church, 65 x 169 ft., for the St. James Episcopal Congregation, Batavia. Cost, $70,000.

SCHENECTADY, N. Y.—Bids will be received and contract will be let about June 1, for constructing a county building. No architect has been chosen, but data are ready to be given to parties wishing to prepare plans. The County Building Committee of the Board of Supervisors is composed of William W. Davis, Thomas W. Winne, Grant Parks and John Hudson. John Peters is Clerk.

POUGHKEEPSIE, N. Y.—Jackson & Rosencrans, Archs., 31 Union Sq., New York, advise us that they are preparing plans and will receive bids in about a month for a 3-story building for the Y. M. C. A., L. H. Shaw, Gen. Secy., Poughkeepsie. Cost, $150,000.

TROY, N. Y.—M. F. Cummings & Son, State Bank Bldg., Troy, have been retained to prepare plans for a gymnasium building, power-house, residence and school building, for the Emma Williard Association, William Gurley, Chn. After completion of the above work three of the present buildings will be torn down and rebuilt at new location. Mrs. Russell Sage, New York, N. Y., has donated $1,000,000 for completion of work. Plans on first section will be ready for bids in about 60 days.

BUFFALO, N. Y.—John H. Coxhead, 930 Ellicott Sq., Buffalo, has been engaged to prepare plans and will receive bids after April 1 for a 3-story and basement hospital building for Dr. Dewitt G. Wilcox, 597 Elmwood St. Cost, $100,000.

PLEASANTVILLE, N. Y.—Jacobs & Heidelberg, Archs., 320 Fifth Ave., New York, are preparing plans and will receive estimates about May 1 for a group of buildings, at Pleasantville, for the Hebrew Sheltering Guardian Society. The buildings will cost $500,000.

ELIZABETH, N. J.—The Board of Education has decided to receive new competitive plans until March 15 for a school building, to cost $75,000.

UNION HILL (Weehawken post-office), N. J.—We are officially advised that W. H. McElfatrick, Arch., 1402 Broadway, New York, N. Y., has let general contract to the ENGINEERING-CONTRACTING CO., American Bldg., Baltimore, Md., for constructing a 3-story theater at Union Hill, for the Haas Amusement Co. The building will cost about about $60,000; equipment, $30,000.

GERMANTOWN (Philadelphia post-office), PA.—Watson & Huckel, Archs., 1211 Walnut St., Philadelphia, have awarded to R. M. PETERSON the contract to build an addition and make extensive alterations to the National Bank of Germantown, at School Lane and Germantown Ave. The cost will be $50,000.

PHILADELPHIA, PA.—CRAMP & CO., Commonwealth Bldg., have obtained a permit to build a 3-story brick public school building at the corner of Rising Sun Lane and Rockland St. The building will measure 147.5 × 84 ft. and will be of fireproof construction. The cost will be $120,000.

J. Frank Bradley is making drawings for two 4-story and basement brick, stone and terra cotta flathouses to be built at the corner of 33d and Arch Sts. Cost, $130,000.

CONNELLSVILLE, PA.—McCullom & Dowler, Archs., 347 Fourth Ave., Pittsburg, have been commissioned to prepare plans for an 8-story bank building for the Second National Bank, Connellsville, to cost $250,000.

BUCK HILL FALLS, PA.—Plans will be prepared by Bunting & Shrigley, Archs., 603 Chestnut St., Philadelphia, Pa., for a hotel for the Griscom Hall Association. Estimated cost, $100,000.

WILKES-BARRE, PA.—Five sets of plans for the proposed union station, into which the cars of the Wilkes-Barre & Hazleton Ry. Co. will run, have been presented to the City Council. The Lackawanna & Wyoming Valley Rapid Transit Co., will continue to use its present station, which will be connected with the union station by a passage. The plan provides for the Wilkes-Barre & Hazleton tracks entering the union station on the second floor. This is necessary because of the height of the tracks in passing over East Market St. Stairs and an elevator service will take passengers to the platform where these trains will stop. Charles B. Houck, Hazleton, Pa., is Gen. Supt. W.-B. & H. Ry. Co.

PITTSBURG, PA.—E. C. Stotz, Arch., Monongahela Bank Bldg., has let general contract to WILLIAM MILLER & SONS, 23 Federal St., for constructing a 4-story brick and concrete stable, near 33d St., for the Iron City Brewing Co., 34th St. Cost, $150,000.

Plans are being prepared by Thomas Hannah, Diamond Bank Bldg. for an 8-story office and mercantile building, 27 × 110 ft., at Ninth and Liberty Sts., for the John Renshaw estate. It will be of steel, terra cotta and hollow tile fireproof construction, with composition roof, metal skylight, terra cotta cornice, structural, ornamental and architectural iron, and oak finish. Estimated cost, $250,000.

BALTIMORE, MD.—The Valiant Estate, represented by J. G. Valiant, 338 North Charles St., has purchased site, 23 × 150 ft., at Cathedral and Mulberry Sts., on which to erect a 6-story apartment-house to cost $60,000. Plans have been prepared by E. H. Glidden, 16 St. Paul St.

WASHINGTON, D. C.—Bids are asked by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, until noon, April 8, for electric passenger elevators for the Office Building, U. S. Senate, Washington.

WASHINGTON, D. C.—A permit has been issued for the erection of the Administration Building of the Carnegie Institute on the corner of 16th and P Sts., N. W. The building will be of limestone and two stories in height. The frontage on 16th St. will be 127 ft. and on P St. 100 ft. The building will stand entirely detached. The main entrance will be from 16th St. The steps will be of bluestone and the doors will be of bronze. A. L. PENNOCK, Land Title Bldg., Philadelphia, has been awarded the contract, and will commence work immediately. The building is to cost, when completed, $225,000.

Bids were opened as follows March 7, at the office of the Commissioners of the District of Columbia for the construction of a 12-room school building on B St., between 13th and 14th Sts., S. E., Washington: Bowyer & Smith, $105,000; Burgess & Parsons, Philadelphia St., between Brightwood Ave. and Eighth St., $98,789; Charles A. Langley, 310 Twelfth St., $101,746; Robt. T. Humphrey, $105,000; W. E. Mooney, Lenman Bldg., $91,036; Pavarini & Wyne, Munsey Bldg., $95,000; Milton C. Davis, Baltimore, $94,400; J. M. Dunn, 30th and P Sts., N. W., $99,709; W. O. Weaver & Sons, Harrisburg, Pa., $95,938; George A. Fuller Co., Munsey Bldg., $96,000. All bidders of Washington, D. C., unless specified.

Bids are asked until noon, March 14, by the Commissioners of the District of Columbia, for constructing a 16-room school building on lots Nos. 51 to 61, inclusive, Square 2,576, District of Columbia.

FORT MYER (Washington, D. C., post-office), VA.—We are officially advised that bids were received on Feb. 24 by Capt. B. B. Hyer, Q. M., 13th Cavalry, for constructing the following buildings: Barrack for one company; quarters for field officer; one double set quarters for two lieutenants; three double sets quarters for two lieutenants; artillery stable; gun shed, store-room and workshop; stable guard and shops. Bids were received on the work (a) for construction proper, (b) same, with basement wall and piers of stone, (c) same, with basement walls and piers of brick, (d) same, with basement wall and piers of concrete, (e) plumbing, (f) heating. Following are the bids: George Ittner, West Peachtree St. and North Ave., Atlanta, Ga., (a) $152,018; W. H. McCray, Bond Bldg., Washington, D. C., (a) $148,500, (b) $148,500, (c) $146,700, (d) $149,850, (e) $10,316, (f) $7,825; Joseph S. Reynolds, 25th and B Sts., N. W., Washington, (b) $110,000, (c) $109,324, (d) $109,400; Thomas H. Melton, 621 F St., N. W., Washington, (a) $141,995, (e) $10,625, (f) $8,935.

NEW ORLEANS, LA.—Peter Gallagher, 846 Common St., is making arrangements to build a 12-story office building, to cost $400,000.

NEW ORLEANS, LA.—We are officially advised that the receivers of MILLIKEN BROS., 11 Broadway, New York, N. Y., have contract for steel work on temple to be erected by Colored Knights of Pythias. The structure will have six stories and basement and will be constructed of steel, concrete and pressed brick. Estimated cost, $189,000. Plans were prepared by Diboll, Owen & Goldstein, Ltd., Perrin Bldg. H. F. CROZIER has contract for foundation.

CHATTANOOGA, TENN.—The Y. M. C. A. has awarded contracts for a 5-story building to the GEORGE A. ULLER CO., Fuller Bldg., New York and Chattanooga, at $101,900. TOM WILCOX PLUMBING CO., of Chattanooga, has contract for heating system at $5,433, and WILLIAM ATTLESEY PLUMBING CO. Cincinnati, Ohio, plumbing at $5,450; R. H. Hunt, James Bldg., Arch.; J. Fred Ferger is Chn. Building Com.

James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of an extension to the post-office building at Chattanooga, Tenn., to GEORGE B. HINMAN, Austell Bldg., Atlanta, Ga., at $94,784; time, May 1, 1910. Noted on Feb. 20.

NASHVILLE, TENN.—Carpenter & Blair, 475 Fifth Ave., New York, have about completed plans and specifications and will advertise for bids soon for erection of Wautaugua Club 8-story building. It will be constructed either of reinforced concrete and steel or brick and stone. Cost, about $125,000.

Paul Roberts, George S. Richards and R. B. Jones, Tulane Hotel, have secured option on Tulane Hotel property 122 × 168 ft., and contemplate erection of hotel, fireproof, ten stories high, with 250 rooms. Cost, $750,000.

MACON, GA.—Dr. E. P. Frazier, Harry Stillwell and associates will erect an apartment house to have five stories in front and seven in the rear. Cost, $200,000.

GREENVILLE, S. C.—Bids were received as follows March 10, at the office of James Knox Taylor, the Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the post-office building at Greenville, S. C.: Claes S. Walin, Chicago, $46,250; Blue Ridge Construction Co., Asheville, N. C., $52,521; W. M. Mulkey, Anderson, S. C., $61,247, 20 months; King Lumber Co., Charlottesville, Va., $49,870; James R. Lawrence, Greenville, S. C., $51,376, 12 months; D. J. Phipps, Newport News, Va., $49,900, 16 months; F. M. Johnson, Asheville, N. C., $58,000, 15 months; H. A. Brown & Co., Asheville, N. C., $59,883; Gude & Co., Atlanta, Ga., $60,000. Time of completion, Sept. 1, 1909.

YOUNGSTOWN, OHIO. — In our issue of March 5 it was stated that the Caldwell & Drake Co. was awarded the Mahoning County court-house contract at Youngstown, Ohio, for the sum of $862,000. It was also stated "the lowest bid was submitted by John Gill & Sons, of Cleveland, for $794,000." We are officially advised that they were the third bidder on the work, their bid amounting to $876,281, their bid of $794,000 being on an alternate, whereas Caldwell & Drake's bid on this same alternate was considerably lower. We regret that this error occurred.

COLUMBUS, OHIO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to CHARLES W. GINDELE, 3333 La Salle St., Chicago, contract for the construction of an extension to the Columbus, Ohio, post-office, at $341,850; time, Nov. 1, 1909. Noted on Feb. 27.

CINCINNATI, OHIO.—Contracts for the 3-story brick and terra-cotta Hughes High School building, 272 × 192 ft., on McMillan St., for the Board of Education, from plans by J. Walter Stevens, New York Life Bldg., St. Paul, Minn., were let as follows: Brick work and reinforced concrete, FERRO CONSTRUCTION CO., Ninth and Harriet Sts., $132,387; carpenter and joiner work, HANSON BROS., 59 Dearborn St., Chicago, Ill., $73,196; lathing and plastering, SCULLY CONSTRUCTION CO., Grand Opera House Bldg., Cincinnati, $25,496; plumbing and gas piping, WILLIAM ATTLESEY, 819 Vine St., Cincinnati, $15,632.

Plans have just been completed by E. H. Dornetta, Arch., Pickering Bldg., for the Eleventh District school, which will be erect in Linn St., at a cost of about $200,000. The building will be fireproof. It will be H-shaped, fronting on Linn St., 178 ft., with wings of a depth of 138 ft. The center portion of the structure will be 100 × 40 ft. The building will have three stories.

MICHIGAN CITY, IND.—Plans have been completed by Mahurin & Mahurin, Fort Wayne, Ind., for a 3-story court-house, at Michigan City, for the Laporte County Commissioners, Laporte, Ind. Cost, $100,000.

INDIANAPOLIS, IND.—The WILLIAM P. JUNGCLAUS CO., 825 Massachusetts Ave., Indianapolis, has been awarded general contract, at $278,708, for constructing a Masonic Temple here. The building will have a frontage along Illinois St. of 130 ft. and along North St. of 100 ft., with entrances on both sides, the one from Illinois St. leading to the building proper and the one from North St. leading to an auditorium. Rubush & Hunter, American Central Life Bldg., Indianapolis, are Archs.

WEST LAFAYETTE (Lafayette post-office), IND.—R. P. Daggett & Co., Archs., Marion Block, Indianapolis, have let the general contract to the WILLIAM P. JUNGCLAUS CO., Indianapolis, Ind., and masonry to JAMES HODGSON, for a 3-story brick experiment station, 120 × 200 ft., for the Purdue University, West Lafayette. Cost, $60,000.

SOUTH BEND, IND.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of an extension to the post-office at South Bend, Ind., to EDWARD HENRY, Tipton, Ind., at $66,315; time, July 1, 1909.

MUNCIE, IND.—The City Council has taken steps toward construction of a city-hall. Estimated cost, $120,000. John O. Potter is City Engr.

DETROIT, MICH.—Plans have been prepared by J. G. Kastler & Co., Archs., Chamber of Commerce Bldg., for church and rectory buildings in Detroit, to be erected by St. Hedwig's Polish Congregation, on Junction Ave., at the corner of Norton St. The walls will be of white stone, relieved by ornamental columns and arched entrances. Besides the main spire, which will be 260 ft. in height, there will be several smaller towers. Rev. B. Szczerba is Pastor. Cost, between $200,000 and $250,000.

Malcomson, Higginbotham & Clement, Archs., 404 and 405 Moffat Bldg., Detroit, will prepare plans for a 15-room school building, in the northern part of the city, for the Board of Education, William J. Lee, Secy., 50 Broadway, Detroit. Cost, $65,000.

CHICAGO, ILL.—Plans have been prepared for a car barn to be erected by the Chicago City Ry. Co., on West 69th St. and Ashland Ave., at a cost of about $100,000. H. B. Fleming is Ch. Engr., First National Bank Bldg.

Estimates will be asked for soon for the proposed 16-story hotel which is to be erected by James K. Sebree at 110 Madison St., at a cost of $800,000.

LA CROSSE, WIS.—Parkinson & Dockendorf, Sinker Bldg., La Crosse, are preparing plans for a 4-story and basement association building, with a 2-story wing, for the Y. M. C. A., O. Ash, Gen. Secy. Cost, $100,000.

MADISON, WIS.—Bids are asked by Lew F. Porter, Secy., Wisconsin Capitol Comn., until noon, April 7, for the structural work, being masonry, window frames, plumbing work and roofing, of the east wing of the Capitol, now building.

DES MOINES, IOWA.—Bids are asked until 11 a. m., March 28, for constructing the proposed 3-story stone city-hall here. It will be 74 × 230 ft., and will cost $350,000. Proudfoot & Bird, Crocker Bldg., Des Moines, are Archs.

MANKATO, MINN.—The following are the bids received by the State Board of Control at St. Paul recently for erecting a normal school at Mankato: W. W. Bowe, $78,000; Otto Neitge, $74,875; E. C. Carlstrom, $74,681; J. B. NELSON & CO., Mankato, about $65,000 (awarded contract).

ST. PAUL, MINN.—The congregation of the First Church of Christ, Scientist, contemplates erecting a pressed brick and cut stone church in this city, to cost $100,000. Rev. J. D. Van Meter is Pastor.

MINNEAPOLIS, MINN.—Long & Long, Archs., 830 Hennepin Ave., Minneapolis, are preparing plans for one 2-story and one 4-story press brick and stone office building for Simon Kruse. Cost, $150,000.

STILLWATER, MINN.—The State Board of Control, P. M. Ringdahl, Chn., St. Paul, will advertise for bids soon for a 2-story brick, fireproof shop building to be built at the new State prison at Stillwater, Minn. Cost, $100,000.

RED WING, MINN.—Bids were received as follows March 5, at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Red Wing, Minn.: Johnson & Nelson, Red Wing, Minn., $53,250, twelve months; Charles S. Walin, Chicago, $49,500; P. M. Heminway Construction Co., St. Paul, Minn., $54,000; Moore & Danner, Kokomo, Ind., $58,600; Northern Construction Co., Milwaukee, Wis., $53,000; Fruechtel-Scheurmann Co., Saginaw, Mich., $49,841; W. J. Longear, Red Wing, Minn., $48,450. Time to complete, June 1, 1909.

LINCOLN, NEB.—Bids are asked until April 1 for the erection of a mechanical engineering laboratory for the University of Nebraska at Lincoln, to cost about $100,000. Charles E. Chowins is Supt. of Constr.

ST. LOUIS, MO.—Barnett, Haynes & Barnett, Frisco Bldg., are completing plans for a church for the St. Rose Congregation. Cost, $80,000.

The St. Regis Realty & Investment Co. will erect a triple apartment house, with steel frame, fireproof, eight stories high, 214 × 206 ft. Cost, $450,000.

PORTLAND, ORE.—A building permit has been issued M. S. Ainsw[illegible] to erect a hotel on Park St., between [illegible] and Stark Sts. Cost, $175,000.

TACOMA, WASH.—Bids will be received about April 15 for erecting brick and steel armory at Tenth and El[illegible] Sts. Russell & Babcock, Provident [illegible], Tacoma, are Archs.

SPOKANE, WASH.—A [illegible]ry building to cost $200,000, will be er[illegible] Bernard St., extending from Sprague [illegible]st Ave., opposite the Northern Pacific [illegible]. The building will cost about $1[illegible] and will be 155 × 75 ft. It will be [illegible]d by the Spokane Realty Co.

SPOKANE, WASH.—The Lincoln Investment Co. has secured [illegible] permit to erect a 6-story brick building [illegible] Main Ave. and Post St., to cost $175,000.

SEATTLE, WASH.—James A. Moore, Lumber Exchange, Seattle, announces that the Arcade Building, on Se[illegible] Ave., with a frontage of 360 ft., will [illegible] improved this summer by the addition of [illegible] stories. He states that plans have been drawn for the work and that construction would be started in 30 days. The additional two stories will cost $150,000.

The Arctic Club has had plans prepared for the construction of a $[illegible] club-house, to be erected at the corner of Third Ave. and Jefferson St. The building [illegible] to be erected by CAWSEY & LOHSE, contractors, and the plans are under the supervision of Schack & Huntington, Archs., Downs Block. Work is to be commenced as soon as material can be secured, and it is the hope of the constructors to finish the building in six months.

SEATTLE, WASH.—Bids are asked until March 14, by the Alaska-Yukon-Pacific Exposition for the construction of the Mines and Fisheries Buildings, and each of these will contain probably 5,000 ft., B. M.

We are officially advised that contracts have been let on the grounds for the following temporary buildings, same to be used for Exposition purposes: Manufacturers' Agriculture, hospital and fire engine station. The Manufacturers' and Agriculture Buildings each contain 1,000,000 ft., B. M., of timber. All of the above buildings are of staff and plaster on the outside. The Directors for the Manufacturers' Buildings are Strehlow, Freese & Peterson. The Agriculture Building is being constructed by H. CHASE & CO., of Seattle. The Board of Regents of the University of Washington have let the following contracts: Auditorium, Chemistry and Engineering Buildings, which will be used by the Alaska-Yukon-Pacific Exposition Co. as an Auditorium, Fine Arts and Machinery Exhibit Buildings, respectively. These three buildings are to be permanent and are of buff brick exterior, the Auditorium being steel and wood, interior construction; the Chemistry Buildings, steel frame, concrete floors and fireproof, and the Engineering Building being heavy mill construction. Howard & Galloway, 604 Mission St., San Francisco, Cal., are Superv. Archs. for the Exposition Co., and have charge of all architectural work and preparation of plans of all buildings erected by the company. They must also approve of all buildings that are to be erected by others on the Exposition grounds. Howard & Galloway have been retained by the Board of Regents of the University of Washington to prepare plans for all the permanent buildings and the three above mentioned are now under contract with the WESTLAKE CONSTRUCTION CO., Grand and Olive Sts., St. Louis, Mo.

VANCOUVER, B. C.—H. B. Watson, Arch., has prepared plans for 5-story hotel building, to be erected on Hastings St. by H. D. Wright, of Seattle, Wash. Cost, $75,000.

Construction on the proposed office building to be erected by the Canada Life Assurance Co., on the old Leland Hotel site, Hastings St., adjoining the new Canadian Bank of Commerce Building, will be started in the spring. The building will be a 6-story structure of stone and structural steel. It will cost between $250,000 and $300,000.

WATER SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

PORTSMOUTH, N. H.—The contract for the construction of the extension Kittery water system has been awarded to CHARLES G. CRAIB, Winthrop, Mass., at $19,000.

HOLYOKE, MASS.—CHARLES MILLAR & SON CO. have been awarded the contract by the Water Commission for furnishing 1,000 ft. of 6-in., 1,000 ft. 8-in., 300 ft. 12-in. pipe, and special fittings, at $24.70 per ton. Thomas J. Carmody is Chn. Com.

BROCKTON, MASS.—Bids will soon be asked by the Water Commission for erecting two standpipes, one at Cary Hill and the other at Brockton Heights. Estimated cost, $17,000.

*WELLESLEY, MASS.—Bids are asked by Charles N. Taylor, Contracting Engr., until noon, March 26, for 5,000 ft. 10-in. 6,000 ft. 8-in., 9,630 ft. 6-in. c.-i. water-pipe, special castings, 3 to 10-in. valves, 4 to 8-in. valves, and 14 to 6-in. valves, 21 valve boxes and 40 two-way hydrants for 5½ ft. trench, all pipe to conform to the New England Water-Works specifications, class "C." Prices to include delivery f. o. b. cars, Rumford Falls, Me.

PROVIDENCE, R. I.—The NASSAU SMELTING & REFINING WKS., 603 West 29th St., New York, was awarded the contract on Feb. 24 by the Board of Public Works for furnishing the Water Department with 35,000 lbs. of pig lead. Walter E. Slade is Comr. Pub. Wks.

*McGRAWVILLE (McGraw post-office), N. Y.—Bids are asked until 2 p. m., March 30, by the Board of Water Commissioners for the following water-works material: One pump of the double-geared, power-driven, single-acting triplex type with cylinders approximately 7-in. diameter by 10-in. stroke, outside packed, with water delivery of from

200 to 3[illegible] gals. per minute; 8-in. cast-iron B. & S. water pipe, 26 tons; 6-in. cast-iron B. & S. water pipe, 41 tons; 4-in. cast-iron B. & S. water pipe, 147 tons; special castings, 1,2[illegible] lbs.; wrought-iron pipe, black, 1½-in., [illegible] ft.; lead, 13,200 lbs.; jute, 250 lbs.; 36 hydrants, 25 gates, 25 gate boxes. H. C. [illegible] is Clk. Comrs. W. G. Stone, Mann Bldg., Utica, N. Y., is Engr.-in-Charge.

ROCHESTER, N. Y.—All bids for furnishing 6,000 water meters were rejected on March [illegible] by the Board of Control and Supply.

ROCHESTER, N. Y.—The Board of Contract and Supply has awarded the contract for installing two pumps at the Brighton sewage pumping station to F. H. FALLS, at $4,469.

SYRACUSE, N. Y.—The water system will be improved by laying new mains in various parts of the city. Estimated cost, $1,250,000. George H. Beebe is Ch. Engr. and Supt. W.-W.

BUFFALO, N. Y.—Bids are asked until 11 a. m., March 17, by the Department of Public Works for a high-service water tower on Kensington Ave. Francis G. Ward is Comr. Pub. Wks.

NEW YORK, N. Y.—Bids are asked until 2 p. m., March 18, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing and delivering operating supplies for pumping stations.

*ROME, N. Y.—Bids are asked by the Board of Water and Sewer Commissioners until noon, March 26, for the construction of a dam on Fish Creek, with all its accessories; a tunnel about 5,500 ft. long; a 36-in. masonry aqueduct about 31,000 ft. long; a 12,000,000-gal. distributing reservoir, all with their accessories. Hervey S. Bedell is Chn. Bd. Plans and specifications are on file at the office of Engineering News, New York.

*PHILADELPHIA, PA.—Plans and specifications are on file at the office of Engineering News, New York, for auxiliary pumps for Torresdale filter plant. Bids are asked until March 19.

*PHILADELPHIA, PA.—The Bethlehem Steel Co., South Bethlehem, Pa., submitted the lowest bid, on March 3, for additional pumping machinery at the Roxboro pumping station, at $88,520, for the installation of two 10,000,000-gallon horizontal cross-compound engines and pumps.

The Snow Steam Pump Works, Snow and Roesser Aves., Buffalo, N. Y., submitted the lowest bid for the installation of two 5,000,000-gallon horizontal cross-compound engines and pumps for the Belmont pumping station, at $78,700. William R. Knight, Jr., is Acting Dir. Pub. Wks.

BARNESBORO, PA.—The citizens have voted $17,000 bonds for the construction of a water system for this borough.

RICHMOND, VA.—Bids are asked until 4 p. m., March 16, by E. F. Morgan, Supt. Virginia Penitentiary, for erecting a steel tower and tank, 50,000 gals. capacity; two pressure tanks, 10,000 gals. each, and one steam pump, 200 gals. per minute.

MAXTON, N. C.—The date for receiving bids for the construction of water-works has been extended from April 1 to April 14. R. M. Williams is Mayor.

SAVANNAH, GA.—Bids are asked by the Water Commission of the Board of Aldermen until March 20 for furnishing water-works material, to consist of 490 tons of 8, 10, 12 and 16-in. cast-iron pipe, 14 tons special castings, 20 hydrants, 44 valves, two 150-HP. boilers and one air compressor. H. S. Jaudon, 207 East Gwinnett St., Savannah, is Engr.-in-Charge.

ATLANTA, GA.—Bids are asked until 5 p. m., April 1, by the Board of Water Commissioners for the construction of the reservoir for the Atlanta water-works. Park Woodward is Gen. Mgr. Comrs.

FORT MORGAN, ALA.—The CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., has been awarded the contract, at $16,400, for constructing a 150,000-gallon steel tank and trestle at Fort Morgan.

MORGANFIELD, KY.—The city will extend the water-works system and secure water from the Ohio River, distant six miles, the plans involving the erection of pumping stations at river and settling tanks, and laying of six miles of piping. W. T. Drury is Mayor.

COLUMBUS, OHIO.—The Council has passed a $75,000 bond ordinance for construction of new water main.

DEFIANCE, OHIO.—The Council has passed a $61,500 ordinance for the issue of water-works bonds.

*GRAND RAPIDS, MICH.—Bids are asked by the County Clerk until 5 p. m., April 2, for installing additional water supply and fire protection system for the Kent County Home of Kent County, including pumping station, elevated tank or pressure tank, water mains, etc. John F. Beck is Chn. Bldg. Com. J. J. Wernette is Consulting Engr., Houseman Bldg., Grand Rapids.

LYONS, ILL.—The CHICAGO BRIDGE & IRON CO., 115th and Throop Sts., Chicago, Ill., has been awarded the contract, at $5,-890, by the Board of Trustees, for erecting a steel water tower, of 100,000 gals. capacity. Adam G. Metz is Village Clk.; William B. Ewing, Chicago, Ill., is Consulting Engr.

WILMETTE, ILL.—Bids are asked until noon, March 18, by the Sanitary District of Chicago, I. J. Bryan, Clk., 1500 American Trust Bldg., Chicago, Ill., for furnishing and laying about 1,925 lin. ft. of 6-in. and about 500 lin. ft. 8-in. water mains, etc., in connection with the North Shore Channel in Wilmette.

WILMETTE, ILL.—The Board of Local Improvements has awarded the contract to F. G. MORTIMER, Glencoe, Ill., for the construction of a relief sewer system, involving about five miles of sewer, both concrete and vitrified tile. E. P. Dunshee is Supt. Pub. Wks.; Charles N. Roberts is Engr., Reaper Block, Chicago, Ill

ELGIN, ILL.—The contract for furnishing lead pipe for water main extensions during the year was awarded on March 3 by the Board of Water Commissioners to the UNITED STATES PIPE CO., Chicago, Ill., at $23.85 per ton.

LOYAL, WIS.—Bids are asked until 2 p. m., March 26, by J. M. Philpott, Village Clk., for 3,880 ft. of 4, 6 and 8-in. c.-i. pipe, 10 hydrants and six valves, and 22,000 ft. of copper wire No. 8 to 00.

ATLANTIC, IOWA.—Bids are asked until March 16 by the Council for furnishing and installing a compound condensing direct-acting pumping engine. James L. Darnell is Engr., New Nelson Bldg., Kansas City, Mo.

SANDERS, MONT.—We are officially advised that E. J. AUGE, Billings, Mont., was awarded the contract on March 2 by the Sanders Co-operative Ditch Co., for the construction of head-gate, wasteway, and two flumes for the canal at Sanders. Fred E. Gordon is Secy. Co.

CRAIG, COLO.—The Great Northern Irrigation & Power Co. has been incorporated for the purpose of irrigating large areas in Routt County. The plan of the company is to construct a canal 50 miles long, carrying water from Elkhead River, one of the tributaries of Bear River, westward across the farming section in northwestern Colorado, and into the gold fields that surround Craig, known as the Craig placers. This will necessitate the construction of two reservoirs, with a capacity of 2,000,000,000 cu. ft. Estimated cost, about $500,000. J. R. Kilpatrick, Craig, is interested.

DENVER, COLO.—Plans were filed in the State Engineer's office on Feb. 25 for the construction of a reservoir in water district No. 7 in Jefferson County. It is to be situated on Ralston Creek, and will have an estimated capacity of 800,000,000 cu. ft. A dam 275 ft. high will be constructed to hold back the waters of the creek, insuring a supply for irrigation and the production of electric power. Moses W. Sommers, William Bokern and Edward S. Snell are interested.

MONTROSE, COLO.—An extension of time of 60 days has been granted to Smith Bros., Montrose, for the completion of their contract to construct a portion of the South Canal, Uncompahgre irrigation project, Colo. The material encountered in excavating was of an unexpected nature and the contractors were delayed until a ditch for draining the land had been constructed. The work was then taken up at a less cost to the United States than would have been the case if the wet material had been handled. The extension advances the date of completion to April 30, 1908.

GREELEY, COLO.—The Miami Water Co., Greeley, has been incorporated with a capital stock of $50,000. H. J. Houston, G. W. Houston and others are interested.

CONCONULLY, WASH.—An extension of time of eleven months has been granted to Charles Herrman, Conconully, in which to complete his contract for clearing Conconully Reservoir site, Okanogan irrigation project, Wash. The contractor was unavoidably delayed in the prosecution of his work by reason of the stringency in the labor market, making it impossible to maintain an adequate force, and the impossibility of burning material during the remaining part of the season on account of rain and snow. The Secretary of the Interior therefore advanced the date of completion from Dec. 1, 1907, to Nov. 1, 1908.

SEATTLE, WASH.—We are officially advised that the following bids were received on Feb. 29 by the Board of Public Works for laying water mains in East Olive and other streets: Rich-Harris Construction Co., Bailey Bldg., Seattle $16,086; H. F. John & Co., Empire Bldg., Seattle, $15,789; F. McLellan & Co., Burke Bldg., Seattle, $14,891; International Contract Co., New York Block, Seattle, $16,317; STIRRAT & GOETZ, Pioneer Bldg., Seattle, $14,869 (awarded contract). R. H. Thompson is City Engr.

F. McLELLAN was awarded the contract on Feb. 29 by the Board of Public Works for laying water mains in Eastlake Ave. and other streets, at $28,103.

YUMA, ARIZ.—See under Light and Power Plants.

SALT LAKE CITY, UTAH.—The contract for installing the pumping plant was awarded on Feb. 21 by the Board of Public Works to FAIRBANKS, MORSE & CO., Franklin and Monroe Sts., Chicago, Ill.

TORONTO, ONT.—The City Engineer has recommended the acceptance of the bid of the John Inglis Co., at $147,530, for the 15,000,000-gallon pumping engine and the same company's bid of $52,700 for the 6,000,000-gallon pumping engine.

BATTLEFORD, SASK.—See under Sewerage.

VICTORIA, B. C.—Bids are asked by the Purchasing Agent of the City of Victoria, until 4 p. m., March 16, for supplying the following quantities of cast-iron water pipe: 33,000 ft. of 12-in. pipe, 18,000 ft. of 8-in. pipe, 36,000 ft. of 6-in. pipe, and 25,000 ft. of 4-in. pipe.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

NEW HAVEN, CONN.—Bids are asked until March 18 by C. H. Kelly, City Engr., for furnishing and delivering cement, granite, catch-basin heads, vitrified sewer pipe, bluestone curbing, etc.; cobblestone, Belgian blocks and sewer castings.

RYE, N. Y.—This village contemplates expending $480,000 for public improvements, including sewers to cost $300,000. Charles S. Towle, 7 East 42d St., New York, is Village Engr.

WASHINGTON, D. C.—Bids were received as follows on March 9 at the office of the Commissioners of the District of Columbia, Washington, for the construction of a service sewer at Ivy City, D. C.: (a) Warren F. Brenizer Co., Howard Ave., Anacostia, D. C.; (b) E. G. Gummel, 300 Rhode Island Ave., Washington; (c) R. J. Beall Construction Co., 1219 F St., N. W., Washington, (d) James A. Coyle, Washington, D. C. 5,000 cu. yds. ordinary excavation, (a) 63 cts.; (b) 70 cts.; (c) 82 cts.; (d) 75 cts. 50 cu. yds. sewer brick masonry, (a) $14; (b) $14; (c) $15; (d) $18. 705 lin. ft. 24-in. sewer pipe, (a) $1.24; (b) $1.10; (c) $1.20; (d) $1.20. 900 ft. 18-in. pipe, (a) 91 cts.; (b) 90 cts.; (c) 98 cts.; (d) $1.10. 15-in. pipe (90 ft.), (a) 85 cts.; (b) 75 cts.; (c) 86 cts.; (d) $1. 12-in. pipe (3,380 ft.), (a) 69 cts.; (b) 70 cts.; (c) 82 cts.; (d) 75 cts. Totals: (a) $8,377; (b) $8,425; (c) $9,519; (d) $9,611.

*WASHINGTON, D. C.—Bids are asked until noon, March 16, by the Commissioners of the District of Columbia for constructing sewer in the District of Columbia. Henry B. F. Macfarland, Henry L. West, Jay J. Morrow are Comrs., D. C.

The contract for furnishing terra-cotta sewer pipe has been awarded to the AMERICAN SEWER PIPE CO., Bessemer Bldg., Pittsburg, Pa., at $6,105. List of bidders noted last week.

WASHINGTON, D. C.—Upon recommendation of D. E. McComb, Supt. of Sewers, the Commissioners of the District of Columbia have decided to award the contract for the construction of a sewer in the valleys of the Broad and Soapstone branches to E. G. GUMMEL, 300 Rhode Island Ave., Washington, whose proposal of $7,018 was the lowest submitted. The other bidders were the W. F. Brenizer Co. and the R. J. Beall Construction Co. Noted last week.

ATLANTA, GA.—The City Council on March 2 authorized the construction of 17 new sewers.

*LOUISVILLE, KY.—Bids are asked by the Commissioners of Sewerage, until noon, April 2, for the construction of Section "C" of the Southern Outfall Sewer. P. L. Atherton is Chn. Comrs. J. B. F. Breed is City Engr.

SPRINGFIELD, OHIO.—Plans and specifications for the construction of a gutter sewer in Kenton Ave. have been completed. Estimated cost, $10,507. M. J. Bahin is City Engr.

ASHTABULA, OHIO.—L. A. Amsden, City Engr., has prepared plans for a new sewer district in the west end of the city.

MINGO JUNCTION, OHIO.—CHARLES NEVILLE, Mingo Junction, has been awarded the contract for constructing sewers as follows: 1,800 ft. concrete 2:3:5 and of 6-ft. egg-shaped sewer, average cut 12 ft., $8 per lin. ft.; three catch basins, each $35, and four manholes, each $40; total, $14,665. (Bids were opened March 1.)

New bids will probably soon be asked for a trunk sewer, to consist of 1,350 ft. 6-ft. and 1,950 ft. 8-ft. egg-shaped sewer, to be either plain concrete or reinforced concrete, average cut about 14 ft.

UPPER SANDUSKY, OHIO.—S. R. HOUSER & SON, Upper Sandusky, have been awarded the contract by the city for the construction of about 4,286 ft. main trunk vitrified pipe sewer, 15 ins. to 24 ins. diameter, at $7,043. A. H. Stutz is Village Clk.

JACKSON, OHIO.—Plans and specifications for the construction of a sanitary sewer system are on file at the office of Engineering News, New York. Bids are asked until March 25. Riggs & Sherman, Toledo, Ohio, are the Consulting Engrs. J. W. Turner is City Engr.

MARION, IND.—Bids are asked until 9.30 a. m., March 20, by the Board of Public Works for the construction of the West Marion continued sewer, and two laterals. John O. Willson is Clk. Bd.

*GRAND RAPIDS, MICH.—Bids are asked until 8 p. m., March 19, by the Board of Public Works for completing the construction of the public sewer along the line of the West Side ditch from Eleventh St. to North St. L. W. Anderson is City Engr.

EVART, MICH.—JOHN VANDERMEELE, Grand Rapids, Mich., has been awarded the contract for the construction of a sewer here.

LUDINGTON, MICH.—The Board of Public Works awarded the contract on March 3 for the construction of six sewers in the First, Second, Fourth and Fifth Wards to TIEDEMAN & SCHAFER.

CAIRO, ILL.—Bids are asked until 10 a. m., March 16, by the City Council for the construction of vitrified tile pipe sewers, house connections, inlets and brick manholes. Ernest Nordman is Secy. Bd.

WATSEKA, ILL.—G. C. Houston, Watseka, has prepared plans and specifications for the construction of 24-in. vitrified pipe sewers on the East Side. Estimated cost, about $10,000. C. E. Matkin is City Clk.

MONTICELLO, ILL.—Bids are asked until March 16 by the Board of Local Improvements for a 10-in. main lateral sewer in district No. 7 "B," and an 8-in. main lateral sewer in sewer district No. 5 "B." J. C. Tippett is Pres. Bd.

DANVILLE, ILL.—W. H. Martin, City Engr., is preparing plans for an 18-in. tile sewer 15,000 ft. long in East Danville. Estimated cost, $40,000.

ST. PAUL, MINN.—Plans and specifications have been submitted to the Board of Public Works, A. R. Sharkey, Asst. Comr. Pub. Wks., for the construction of two sewers, estimated to cost $30,000.

ST. PAUL, MINN.—O'NEIL & PRESTON were awarded the contract on Feb. 24 by the Board of Public Works for the construction of a sewer in Brown Ave., and Gates St. to Mount Hope, at $15,593.

JOHN LIND was awarded the contract for the construction of a sewer in Duke St., from St. Clair to Randolph Sts., at $15,600. Andrew Sinher is City Engr.

MOBERLY, MO.—Bids are asked until April 6 by the city for the construction of pipe sewers. J. F. Curry is City Clk.

GUTHRIE, OKLA.—The following bids were received on Feb. 18 by the City Council for the construction of storm sewers in sewer districts Nos. 1, 2 and 3: (a) concrete, (b) brick: F. A. Derr, No. 1, (a) $8,477, (b) $8,907; No. 2, (a) $14,169, (b) $14,363; No. 3, (a) $2,771, (b) $3,027; J. O. Severns, No. 1, (a) $7,664, (b) $8,153; No. 2, (a) $10,439, (b) $11,111; No. 3, (a) $2,825, (b) $2,953; Kirby, Mayfield & Shaw, No. 1, (b) $8,696; No. 2, (b) $11,751; No. 3, (b) $2,608 (the whole less 4% if entire contract for thre districts is awarded); W. A. Stuckey Construction Co., No. 1, (a) $12,585, (b) $9,736; No. 2, (a) $15,802, (b) $13,031; No. 3, (a) $6,477, (b) $5,167 (dirt excavation included, rock excavation additional); Connelly Construction Co., No. 1, (a) $8,395, (b) $8,-547; No. 2, (a) $11,462, (b) $11,694; No. 3, (a) $2,705, (b) $2,717; Billings & Snyder, No. 1, (a) $9,074, (b) $8,870; No. 2, (a) $13,150, (b) $12,501; No. 3, (a) $3,282, (b) $2,853.

*FORT MORGAN, COLO.—Bids are asked by C. C. Rickel, City Clk., until 8 p. m., March 31, for the construction of approximately 56,000 ft. of 8-in. sewer; 3,100 ft. of 10-in. sewer; 6,300 ft. of 12-in. sewer; 2,400 ft. of 15-in. sewer; 48 ft. of 16-in. cast-iron outlet; 125 manholes; 27 flush tanks; 4,000 ft. of ½-in. water service pipe.

FORT CASEY, WASH.—Bids are asked until 11 a. m., March 26, by the Chief Quartermaster, Vancouver Barracks, Vancouver, Wash., for repairing and extending the sewer outlet at Fort Casey.

SELLWOOD (Portland post-office), ORE.—D. W. Taylor, City Engr., Portland, Ore., has prepared new plans for the construction of a sewer system for this town.

SAN DIEGO, CAL.—A. Crowell, City Engr., has estimated the cost of laying water pipe in Third St. between A and K Sts., at $8,-557.

WOODLAND, CAL.—Bids are asked until 7.30 p. m., March 16, by the City Trustees for furnishing and delivering 14,640 ft. of 6-in. vitrified salt glazed sewer pipe, 366 6-in. Y's with 4-in. outlet; 366 4-in. caps, 3,845 ft. 8-in. vitrified salt glazed sewer pipe; 96 8-in. Y's; with 4-in. outlet; and 96 4-in. caps; eight standard 6-in. cast-iron Miller automatic flushing siphons, 27 curbs and 27 covers for manholes. E. B. Mering is City Clk. Bert Montclair, Engr.

SALT LAKE CITY, UTAH.—STRANGE & McGUIRE were awarded the contract on Feb. 28 by the Board of Public Works for the extension of sewers in sewer extension district No. 132, at $6,159. Louis C. Kelsey is City Engr.

BOISE, IDAHO.—Thomas Finnegan has submitted the lowest bid for the construction of sewers in lateral sewer district No. 107, at $8,213. Other bidders were: Idaho Hardware & Plumbing Co., $8,434; Acme Plumbing & Heating Co., $10,269; Liberty Plumbing & Heating Co., $10,700.

NOTRE DAME DE GRACE, QUE.—Bids are asked until noon, March 14, by the city for the construction of a sewer here. L. Descarries is Secy.-Treas.

MOOSEJAW, SASK.—The ratepayers have passed a by-law approving of an expenditure of $125,000 for a sewerage and water-works system. J. D. Simpson is Town Clk.

BATTLEFORD, SASK.—The ratepayers have voted in favor of a sewerage and waterworks system, to cost $90,000. B. Prince is Town Clk.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

MALDEN, MASS.—The contract for disposal of house offal for a term of three years, bids opened Feb. 18, has been awarded to LEVI ELMS, Forest St., Melrose, Mass., at $1,800 per year. Thomas P. Powell is Supt. Dept. Health.

NEW BRIGHTON (S. I.), N. Y.—Bids are asked until noon, March 31, by George Cromwell, Boro. Pres., for street sprinkling in the Borough of Richmond.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 19, by the Park Board for furnishing and delivering waste receptacles for parks, Borough of the Bronx. Henry Smith is Pres. Bd.

ST. LOUIS, MO.—The lowest bid opened on Feb. 11 by the Board of Public Improvements for the reduction of garbage for a term of ten years ending Sept. 1, 1918, was submitted by the Standard Reduction & Chemical Co., St. Louis, at 27 cts. per ton. Wm. F. Miller, Pittsburg, Pa., is interested in this company.

BOISE CITY, IDAHO.—Bids are asked by the Board Public Works until 4 p. m., March 14, for sprinkling streets and parts of streets from May 1, 1908. Joseph Perrault is Pres. Bd.

MONTREAL, QUE.—The city will rebuild the present incinerator at a cost of $102,000.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

FORT WILLIAMS (Cape Cottage post-office), ME.—Bids were received as follows on March 2 by Capt. F. J. Morrow, Q. M., U. S. A., for grading at Fort Williams: Worcester & Wilson, $4,900; Frank H. Haskell, $3,980; Angelo & Lorello, $8,250; Peter F. Conley, Boston, $4,460; W. B. Byrne, Boston, Mass., $5,200.

LYNN, MASS.—The following bids were received on Feb. 6 by the Board of Public Works for 14,000 sq. yds. paving: John E. Burns & Co., 53 Langdon St., Roxbury, Mass., for Mack brick on 6-in. concrete, $2.75, and same brick, the city to do the excavating, $2.45; Albert G. Foster, 239 Union St., Lynn, Mass., same $3.50 and $3.30; David J. Sheehan, Lynn, Mass., for same, $2.96 and $2.71; on grouted concrete roadbed, 8-in. excavation, $1.68, and 6-in. excavation, $1.39; Boston Asphalt Co., Bos-

ton, Mass., for 2-in. Bermudez asphalt on 5-in. concrete base, $3.10; Connecticut Hassam Paving Co., New Haven, Conn., for Hassam pavement, $1.75; the Hassam Pavement Co., Worcester, Mass., for Mack. vitrified brick on concrete foundation, $2.74; on wood block on Hassam foundation, $3.70; Lynn Granolithic & Construction Co., 409 Union St., Lynn, Mass., for granolithic smooth street pavement, $1.60; P. J. McDermott, 5 Ingalls St., Lynn, Mass., for McDermott smooth pavement, $1.45; J. H. McLaughlin, 31 Lexington St., Lynn, Mass., for McLaughlin smooth pavement, $1.75; Warren Bros. Co., Federal St., Boston, for bitulithic on bituminous foundation, $2.25 and $2.30; on concrete foundation, $2.55 and $2.50; The Worcester Conduit & Paving Co., Worcester, Mass., for vitrified brick on 6-in. concrete foundation, $3.04, and on 4-in., $2.71; on 5-in. sand base, $1.97. Horace Parker is Secy. Bd.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., March 25, for regulating and repaving with Medina sandstone pavement, Class A, on a concrete foundation, the roadway of Fulton St., from Joralemon St. to Hanover Place.

NEW BRIGHTON, S. I., N. Y.—Bids are asked by George Cromwell, Boro. Pres., until March 24, for furnishing and delivering 2,500 tons of 1½-in. and ¾-in. broken stone in Stone Delivery Dist. No. 1; also 2,500 tons of 1½-in. and ¾-in. broken stone in Stone Delivery Dist. No. 2.

FORT TERRY, N. Y.—FRED A. ELDREDGE, Westerly, R. I., has submitted the lowest bid for the construction of 3,400 ft. of macadam, and 1,200 ft. of dirt road, at $5,339.

CORTLAND, N. Y.—The Board of Public Works awarded the contract on March 2 to the BARBER ASPHALT PAVING CO., 114 Liberty St., New York, for paving North Main St. and Homer Ave., with asphalt. S. S. Knox is Pres. Bd.

ASBURY PARK, N. J.—We are officially advised that the date for receiving bids for paving has been extended from March 9 to March 16. W. C. Burroughs is City Clk.

TRENTON, N. J.—We are officially advised that the following bids were received on March 10 by the Board of Chosen Freeholders for the improvement of (a) Elm St., Rosedale and Pennington road from Lawrenceville and Princeton road to Vankirks Corner, (b) Etna and Perrineville road from Etna to Monmouth County line, (c) Brunswick pike road from Clarksville to Middlesex County line: Richard Newton, (a) $37,221; (b) $9,930; (c) $137,060. R. A. Montgomery, $30,827; (b) $9,336; (c) $36,270; A. E. Stout, (a) $32,833. Nelson Meredith Co., (a) $30,684. John H. Hurley, (a) $39,085; (b) $9,593; (c) $36,469. T. J. McGovern, (a) $33,645. Newton A. K. Bugbee & Co., (a) $29,945. Antonio De Lucio, (a) $44,456; (c) $44,638. E. C. Humphrey & Co., (a) $38,559; (c) $44,293. C. B. WALTON CO., Trenton, N. J., (a) $27,554 (awarded contract); (b) $9,441; (c) $34,262 (awarded contract). Thomas Mehan & Sons, (a) $28,931; (c) $43,025. HARRY N. SCOTT, Plainsboro, N. J., (b) $9,143 (awarded contract); (c) $36,999. Frank J. Eppele is City Engr.

*PHILLIPSBURG, N. J.—Bids are asked until 11 a. m., April 1, by the Road Committee of the Board of Chosen Freeholders, Warren County, for the construction of a road in said county, known as the Lopatcong Road, beginning at the Harmony Township line, near Lower Harmony, and extending to the borough line of Phillipsburg, a distance of 13.688 ft. or 2 59-100 miles. Joseph R. Thatcher is Dir. Bd.

CANONSBURG, PA.—Bids are asked by W. C. Black, Borough Clk., until 7.30 p. m., March 16, for improving a portion of East College St.

BRADFORD, PA.—We are officially advised that the date for receiving bids for paving several streets has been extended until March 23. B. A. Wise is Asst. City Engr.

HARRISBURG, PA.—Bids are asked until March 25, by Joseph W. Hunter, State Highway Comr., for construction of following State roads: Grove Township, Cameron County, 4,348 ft.; Guilford Township, Franklin County, 10,535 ft.; Lawrence Township, Clearfield County, 3,160 ft.

Bids are asked until March 26 for construction of the following State roads: Hanover Township, Luzerne County, 19,200 ft. long; White Township, Indiana County, Jacksonville road, 7,000 ft. long; Ernest road, 3,718 ft. long.

Bids are asked until March 27 for construction of the following State roads: Bradford Township, Clearfield County, 21,000 ft.; Factoryville Borough, Wyoming County, 5,215 ft.; Milesburg Borough, Center County, 2,700 ft.; Rush Township, Center County, 5,740 ft., with bridge.

*SMETHPORT, PA.—All bids opened on Feb. 27 by the Borough Council for paving Main St. have been rejected. W. G. Holder is Secy.

SCRANTON, PA.—Bids are asked until 11 a. m., March 16, by Charles R. Acker, Dir. Pub. Wks., for grading and paving West Market St., with Warren's patent bituminous macadam waterproof pavement.

KENSINGTON, MD.—The Montgomery County Commissioners will have a road constructed from Kensington to Bradley lane, a distance of about four miles. Estimated cost, $20,000. W. W. Crosby, State Highway Engr., Baltimore, Md., is Engr.-in-Charge.

WILSON, N. C.—Bids are asked until March 15 by T. A. Hinnant, City Clk., for constructing 90,000 sq. ft. of granolithic sidewalks.

AUGUSTA, GA.—Bids are asked until March 31 for paving with brick or Belgian block, 13th St. from third level of canal to Broad St. Nisbet Wingfield is City Engr.

GRENADA, MISS.—Bids are asked until March 16 by the Committee on Streets, for furnishing material and laying 25,000, 50,000, 75,000 and 100,000 sq. ft., respectively, of granolithic sidewalks.

CARTHAGE, TENN.—The Bridgewater Turnpike Co. has been incorporated with $10,000 capital stock by S. C. Bridgewater, B. M. Bridgewater, C. S. Key and others.

COLUMBUS, OHIO.—Dawson & Holbrook are preparing plans for the State Board of Agriculture for concrete and cement walks, to lead from all buildings on the State Fair grounds and to connect various departments, grand stands, etc. T. L. Calvert is Secy. Bd.

NEWARK, OHIO.—The contract for paving South Fourth and South Fifth Sts. has been awarded by the city to BRENNAN & NUTTER, Newark, at $6,831. C. H. Wells is City Engr.

TOLEDO, OHIO.—GARRIGAN BROS. were awarded the contract at $24,000 by the Board of Public Service on March 2 for paving Fulton St. Reynold Voit is Secy. Bd.

CINCINNATI, OHIO.—Bids are asked until noon, March 27, by the Commissioners of Hamilton County for the improvement of Mount Nelo Cliff road. Fred Dreihs is Clk. Bd. Comrs.

GARY, IND.—Bids are asked until 2 p. m., March 24, by the Board of Trustees, for improving Ninth Ave. C. O. Holmes is Clk. Bd.

INDIANAPOLIS, IND.—The City Council has appropriated $25,000 for the construction and installation of a city asphalt plant. The Board of Public Works will soon ask for bids.

VERNON, IND.—Bids are asked by the Commissioners of Jennings County until 11 a. m., April 6, for the construction of 2½ miles of pike road in Spencer Township. T. L. Thomas is County Audr.

RUSHVILLE, IND.—Bids are asked by the Commissioners of Rush County until 2 p. m., April 2, for grading, draining and paving with crushed stone a highway 8,400 ft. long, between Rush and Fayette Counties. Albert L. Winship is County Audr.

RICHMOND, IND.—Bids are asked by the Commissioners of Wayne County until 1 p. m., April 6, for the construction of a gravel road about three miles long in Washington Township. Demas S. Coe is County Audr.

JASPER, IND.—Bids are asked by the Commissioners of Dubois County until 1 p. m., April 7, for the construction of four miles and 80 ft. of free turnpike road in Bainbridge Township and through the town of Jasper. M. A. Sweeney is County Audr.

VINCENNES, IND.—Bids are asked by the Commissioners of Knox County until 2 p. m., April 7, for the construction of 14,471 ft. of gravel road in Steen Township; 2,185 ft. of gravel road in Vigo Township, and 1,320 ft. of gravel road in Vigo and Washington Townships. John T. Scott is County Audr.

ELKHART, IND.—Bids are asked by T. G. Wilkinson, City Clk., until 2 p. m., March 16, for paving South Main St., 20,463 sq. yds., with brick. Estimated cost, $40,898. A. M. Smith is City Engr.

VALPARAISO, IND.—Bids are asked until March 27, by the city, for constructing 25,328 sq. yds. of brick pavement, asphaltum filler, and 11,281 sq. yds. of brick pavement, sand filler, to be laid on macadam foundation, the old pavement to be used in part as the foundation. G. F. Stinchfield is City Engr.

MICHIGAN CITY, IND.—Bids are asked until March 19 by the city for paving about 37,000 sq. yds., with brick. H. M. Miles is City Engr.

FORT BENJAMIN HARRISON (Lawrence post-office), IND.—Bids are asked until 11 a. m., March 31, by Capt. George H. Penrose, Q. M., U. S. A., for the construction of a gravel road.

CADILLAC, MICH.—The Board of Public Works has awarded the contract to the CENTRAL BITULITHIC CO., at $2.15 per sq. yd., for paving several streets.

LANSING, MICH.—H. A. Collar, City Engr., has been authorized to prepare estimates for paving Washington Ave. South, with brick, on gravel foundation, and also on a concrete base.

MANISTEE, MICH.—The contract for paving Maple St. has been awarded to the CENTRAL BITULITHIC PAVING CO., Detroit, Mich., at $11,585.

KALAMAZOO, MICH.—Bids are asked by the City Clerk until March 16 for laying about 44,000 sq. yds. pavement.

OTTAWA, ILL.—The following bids were received on March 2 by the Board Local Improvements for brick paving in East Ottawa: Orie T. Dunlap, Edwardsville, Ill., $9,165; Smith & Brown, 78 La Salle St., Chicago, Ill., $90,000; Green & Sons Co., Appleton, Wis., $89,918; Keys & McNamara, La Salle, Ill., $89,176; Hayes & Maddox, Montpelier, Ind., $89,127; McCarthy Improvement Co., Davenport, Iowa, $88,809; John Hamm, Litchfield, Ill., $88,786; Crescent Contracting Co., Peoria, Ill., $83,605; H. L. Hossack, Ottawa, Ill., $82,509. Charles F. Wilson is Secy. Bd.

QUINCY, ILL.—The City Council on March 2 authorized the paving of Kentucky St. with brick block.

CEDAR FALLS, IOWA.—MICHAEL FORD, Cedar Rapids, Iowa, was awarded the contract on Feb. 25 by the city for paving 17,650 sq. yds. with brick, at $1.44 per sq. yd. and 26 cts. for curbing.

P. F. McCARTHY, Davenport, Iowa, secured the contract for laying 790 sq. yds. asphalt at $1.95 per sq. yd.

ST. PAUL, MINN.—The Board of Public Works has awarded the contract for resurfacing Oakland Ave. with asphalt from Ramsey St. to Grand Ave. to the BARBER ASPHALT CO., Pennsylvania Ave., St. Paul, at $31,080.

PALESTINE, TEX.—Bids are asked by S. P. Allen, City Secy., until 4 p. m., March 25, for about 25,000 sq. yds. of street paving.

ORANGE, TEX.—The citizens have voted $16,000 bonds for street improvements.

LAWTON, OKLA.—Bids will soon be asked for laying 30 blocks of asphalt pavement.

VANCOUVER, WASH.—Bids are asked until March 14 by the State Highway Board, Olympia, for grading and graveling State Aid Road No. 7, known as Fourth Plain Road, Clarke County. Joseph M. Snow is State Highway Comr.

PORT ANGELES, WASH.—We are officially advised that the contract for improving the Beaver-Prairie cut-off road was awarded on March 3 by the County Commissioners to DAVID GOVAN, Port Angeles. N. M. Hawkins is County Audr.

OLYMPIA, WASH.—It is proposed to lay about 18,000 sq. yds. of brick paving on concrete foundation. Estimated cost, $50,000. J. R. Dever is City Clk.

SALT LAKE CITY, UTAH.—Contracts for street improvements were awarded by the Board of Public Works on Feb. 28, as follows: For paving First South St., from Second East to 13th East Sts., with asphalt, to PATRICK MORAN, at $186,285; for paving Pierpont St., from West Temple to First West Sts., same, at $10,580; for sidewalk extension, on Seventh South St., to FRANK DORAN, at $3,299; sidewalk extension between Fourth South and Ninth South, and State and Ninth East Sts., same, at $9,491.

*SAN SALVADOR, SALVADOR, C. A.—Bids are asked until May 1 by Ernest Schernikav, Consul, 42 Broadway, New York, for paving certain streets in San Salvador with stone, in foundation of solid pressed material.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

GATES, N. Y.—Foote & Headley, Archs., Cutler Bldg., Rochester, N. Y., have prepared plans for a glass factory at Gates for F. E. Reed & Co., 380 Plymouth Ave., Rochester.

INDUSTRY, N. Y.—Bids are asked by Miss Laura E. Aldridge, Pres. Bd. of Manufacturers of the New York State Agricultural and Industrial School, until 7 p. m., March 17, for the construction of a grist mill, creamery building and a cold storage building.

ROCHESTER, N. Y.—Joseph H. Oberlies, Arch, Granite Bldg., Rochester, has let general contract to WILLIAM SUMMERHAYS & SONS, 9 Exchange St., Rochester, for a 1-story and basement bottling-house addition for the Flour City Brewing Co., 440 Lake Ave. Cost, $25,000.

BRIDGEPORT, PA.—F. W. Dean, Mill Engr. and Arch., 53 State St., Boston, Mass., advises us that the contract for construction of a plant for the Diamond State Fibre Co., Bridgeport, has been awarded to FRANK R. HEAVNER, of Norristown, Pa. The building is to have brick walls, and floors partly wooden mill construction and partly steel and hollow tile. The roof is to be of wood, covered with tar and gravel. The building is to have two stories. The length will be 213 ft., and the width 127 ft. The purpose of the mill is to manufacture fiber out of rag paper, which the company makes in a paper mill nearby. The fiber is used for making gears, electric switch handles, cotton mill roving cans, etc. The greater part of the space is to be used for tanks for soaking the chemical from the fiber, and afterwards drying it in the dry-rooms, which will be heated with steam coils, and the air will be circulated by fans. The sheets of fiber will be pressed in hydrostatic presses. The presses are to be operated by an accumulator and intensifiers. There will be no steam plant in this mill and the power and steam will be derived from the steam plant of the adjoining paper mill.

LANCASTER, PA.—Seymour & Paul A Davis, 1600 Chestnut St., Philadelphia, has let contract to P. M. WOHLSEN, Lancaster, for a shop building for the Thaddeus Stephen's Orphans' Home, Lancaster.

DANVILLE, VA.—It is stated that J. W. Wayne, Box 8, Copley, Pa., proposes to erect a silk mill here, to cost $50,000. It will be equipped with 100 looms.

BELMONT, N. C.—The Majestic Mfg. Co., of Belmont, N. C., has awarded contract to A. K. LOFTIN, of Lincolnton, N. C., for the erection of the Majestic mill buildings, and work will begin at once. The company several weeks ago organized with capital stock of $200,000 and engaged Stuart W. Cramer, of Charlotte, N. C., as Arch.-in-Charge. The main building will be one story high, 125 × 340 ft., and will be equipped with 10,000 spindles and accompanying machinery for the manufacture of fine combed yarns. Orders for the machinery have been placed and the equipment will be ready for installation when the buildings are completed. A. C. Lineberger is Pres. of the Majestic Mfg. Co.

LANDIS, N. C.—E. G. Mills is planning to organize a company, capitalized at $100,000, it is said, for the purpose of building a cotton mill.

CATEECHEE, S. C.—The Norris Cotton Mills Co., of Cateechee, S. C., has awarded contract for a number of looms of the Northrop pattern, to the DRAPER CO., Tremont Bldg., Boston, Mass. This new machinery is expected to be in position by April 1. The company is at present operating 18,000 ring spindles and 452 looms.

DOUGLASVILLE, GA.—The Lois Cotton Mills Co. will be reorganized and provision made for increasing the output of the mills. M. E. Geer is Pres. and Mgr.; J. E. Sirrine, Greenville, S. C., is Engr.-in-Charge.

ATLANTA, GA.—The Dunford Roof & Bridge Paint Co., J. W. Dunford, Pres., recently incorporated, will erect a 2-story brick building, 60 × 150 ft. The cost of building and machinery will be $12,000 to $20,000. The company will manufacture distilled coal-tar products for iron, sheet metal, tin, wood and paper.

LIVINGSTON, TENN.—The Livingston Furniture Co., recently incorporated, will erect and equip a factory to [illegible] about $15,000, and will manufacture b[illegible] sets, etc. M. H. and R. M. Hankins a[illegible]rs.

PORTLAND, OHIO.—The [illegible] Shoe Co., Portland, has incr[illegible]ing Drew from $300,000 to $400,000, [illegible] its capital its factory for manufacturing [illegible] will enlarge [illegible]n's shoes. Irving Drew is Pres.

SOUTH BEND, IND.—The [illegible]go, South Bend & Northern Indiana [illegible] proposes to construct car barns and [illegible] shops here for the entire system. [illegible] Riddle is Gen. Mgr., South Bend.

CHICAGO, ILL.—Jenney, M[illegible] & Jensen, Archs., New York Life Bldg., [illegible] general contract to J. W. SNYDER, [illegible] Washington St., for a manufacturing pla[illegible] the Hills Benedict Linseed Oil Co.

WAUPUN, WIS.—Henry T[illegible] Warden, State Prison, Waupun, adv[illegible] that it is proposed to erect a 1-story [illegible] and concrete building for a twine [illegible] It will cost about $125,000.

ATLANTIC, IOWA.—It is [illegible] that the Atlantic Canning Co. will [illegible] improvements to its plant, costing a[illegible] $15,000.

MILES CITY, MONT.—The [illegible]western Building Co. has purchased a [illegible] on Fifth St., selected by representative[illegible] that company some weeks ago. The [illegible]pany will erect a 2-story brick building [illegible] 100 ft., which will be used for the m[illegible]facture of sash, blinds, doors and other m[illegible] work. For its employees the company w[illegible] soon begin the erection of several houses [illegible] Woodland Park and Clark additions.

COURTNEY, MO.—The FUL[illegible] ENGINEERING CO., Allentown, Pa., has been awarded the contract for the erection of the plant of the Blue Seal Portland Cement Co., at Courtney, Mo. The company is now financing the proposition and expects to start construction work in July, 1908. The plans are in course of completion. The principal office of the company is located in the Scarritt Bldg., Kansas City, Mo. The plant is to be located on the Atchison, Topeka & Santa Fe Ry. and the Missouri Pacific Ry. Clifford W. Lyon is Pres.; John H. Marshall, Vice-Pres.; William T. Dillon, Secy.; William Mansfield, Treas. The plant will have a daily capacity of 3,000 bbls. Oil will be used for burning.

KANSAS CITY, MO.—It is stated that a 6-story addition costing about $150,000 is to be erected to the factory of the Loose-Wiles Cracker & Candy Co. at Eighth, Santa Fe and Henning Sts. C. E. Gould is Mgr.

ST. LOUIS, MO.—The Krey Packing Co., 2100 Bremen Ave., is having plans prepared by Charles L. Krouse, 3857 Chouteau Ave., for a cold storage and curing plant, to be built of brick and stone, 140 × 225 ft., and to cost $150,000. Pierre A. Garneau is Secy.

SPRINGFIELD, MO.—Reed & H[illegible]ckenlively, Archs., Baldwin Theater, Springfield, have prepared plans for a cold storage building, 63 × 130 ft., for the Springfield Ice & Refrigerating Co.

FORT WORTH, TEX.—Fred A. Cumnock, Celeste, Tex., is forming plans for the organization of a stock company to build a cotton mill at Fort Worth. This proposition contemplates the investment of $100,000.

BEAUMONT, TEX.—The Kirby Lumber Co., Houston, Tex., will install a woodworking plant to be operated in connection with planing mill, which will be rehabilitated. It is reported that $125,000 will be expended.

HOUSTON, TEX.—A concrete building, to cost about $60,000, will be erected by the Magnolia Brewery Co.

PORTLAND, ORE.—Press reports state that Swift & Co., 125 Monroe St., Chicago, Ill., will erect a packing plant on the Peninsula. Bids will be called for in about 30 days.

Gustave Mathieson, who operates a glass factory, proposes to erect a plant in Portland to cost about $15,000, to manufacture fruit jars and lamp chimneys.

BAYPOINT, CAL.—Spect & Shideler, 26 Montgomery St., San Francisco, Cal., advise us that the purchase of 2,500 acres of land along the water front of Contra Costa County, Cal., was made last month by the C. A. Smith Timber Co., Andrus Bldg., Minneapolis, Minn., for about $250,000. The company is at work constructing a power plant with an Allis-Chalmers engine of 800 HP. on the ground. It is to construct a water-works system to supply a town of 25,000 inhabitants, besides their own uses. The water front of 15,000 ft. is to be opened for the location of manufacturing enterprises. It is the intention of the Smith Company to work 2,000 men in their various woodworking plants. The work is in charge of George A. Bergstrom, Hansford Block, Market St., San Francisco, Cal. The estimated amount of money to be expended is $3,500,000. The company has one mill at Coos Bay, cutting 375,000 ft. a day, all of which will come to San Francisco and be distributed from Baypoint, which is a suburban town, 38 miles east of San Francisco, on San Francisco Bay.

NAPA, CAL.—The Napa Leather Co.'s articles of incorporation have been filed in the County Clerk's office. The new company will construct and operate a tannery in East Napa. Machinery has been ordered from the East. The capital stock is $75,000 and the Directors are: E. W. Churchill, Dr. E. Z. Hennessey, H. Short, Joseph Levinson and Samuel Zacharonsky. Heavy and light leather will be made.

SARNIA, ONT.—The Delaware Seamless Tube Co., of Auburn, Pa., is completing arrangements for the construction of a factory here, it is stated, to cost $200,000.

CAMPBELLFORD, ONT.—An agreement has been signed between the town and a party of capitalists under the name of the Canadian Steel Rolling Mills, Ltd., under which the syndicate will erect a plant here at a cost of $60,000 to manufacture steel plate. F. W. Wood is Town Clk.

CONTRACT PRICES.

*SEWER.—White Plains, N. Y.—Bids were received on Nov. 29 (an extension of time from Nov. 7) by the Bronx Valley Sewer Commission for construction of about twelve miles of circular sewer and about three miles of circular lined tunnel. George R. Byrne is Ch. Engr. of the Comn. Frank N. Glover is Secy. The bidders were: (A) James O'Leary, 245 East 202d St., New York; (B) Frank E. Gore, 206 Broadway, New York; (C) MACK PAVING & CONSTRUCTION CO. (awarded contracts for monolithic construction on Sections 1, 2, 3, 4 and 5, and for block construction on Sections 6 and 7, at $1,817,830); (D) Bellew & Merritt, Depot Sq., Tuckahoe, N. Y.; (E) Freeman H. Merritt, 8 Spring St., White Plains; (F) Wm. R. Thompson, 704 Lafayette Ave., Brooklyn, N. Y.; (G) Thos. E. Vermilye, Zerega Ave. and Haley Pl., Westchester, N. Y. (*monolithic construction; †block construction.)

Section 1—

Quantity	Item	Section	Cut	(A)*	(B)*	(C)*	(D)†	(E)*
5,10[illegible] ft.	3'4" Diameter—Section	D	Cut 0-12	$7.44	$7.10	$9.00	$15.00	$8.80
157.00 "	3'4" " "	D	" 12-15	7.44	8.00	10.00	16.00	10.62
44.00 "	3'4" " "	D	" 15-21	7.44	9.15	11.00	18.00	12.37
229.[illegible] "	3'4" " "	E	" 0-12	7.44	70.55	25.00	35.00	19.83
2,141.[illegible] "	3'9" " "	D	" 0-12	11.42	8.15	12.00	16.00	9.79
50.00 "	3'9" " "	D	" 12-15	20.00	9.00	13.00	17.00	11.88
16.[illegible] "	3'9" " "	E	" 0-15	20.00	72.35	30.00	36.00	17.67
77.00 "	4'0" " "	A	" 0-18	20.00	8.70	13.00	18.00	10.04
60.00 "	4'0" " "	A	" 18-21	20.00	10.50	15.00	20.00	11.56
20.00 "	4'0" " "	A	" 21-24	20.00	11.45	18.00	22.00	11.78
68.00 "	4'0" " "	A	" 24-27	20.00	12.20	23.00	25.00	13.44
25.00 "	4'0" " "	C	" 0-21	20.00	9.15	12.00	23.00	15.58
90.00 "	4'0" " "	C	" 21-24	20.00	11.05	16.00	24.00	12.55
272.00 "	4'0" " "	C	" 24-27	20.00	11.90	20.00	26.00	14.75
90.00 "	4'0" " "	C	" 27-30	20.00	12.75	30.00	30.00	14.16
1,114.04 "	4'0" " "	D	" 0-15	20.00	9.50	14.00	16.00	13.76
902.[illegible] "	4'0" " "	D	" 15-18	20.00	10.20	16.00	18.00	16.21
387.[illegible] "	4'0" " "	D	" 18-21	20.00	11.10	17.00	21.00	13.30
274.00 "	4'0" " "	D	" 21-24	20.00	11.90	19.00	24.00	18.65
15.00 "	4'0" " "	E	" 0-24	20.00	76.10	40.00	38.00	22.29
12.00 "	4'3" " "	A	" 0-12	20.00	8.30	14.00	16.00	10.14
11.00 "	4'3" " "	A	" 12-21	20.00	9.80	20.00	18.00	11.83
70.00 "	4'3" " "	C	" 0-12	20.00	8.55	12.00	16.00	9.75
168.00 "	4'3" " "	C	" 12-18	20.00	9.75	15.00	18.00	12.24
205.00 "	4'3" " "	C	" 18-21	20.00	11.00	17.00	21.00	14.23
646.14 "	4'3" " "	D	" 0-12	20.00	9.50	12.00	16.00	10.06
910.00 "	4'3" " "	D	" 12-15	20.00	10.30	13.00	17.00	14.69
724.00 "	4'3" " "	D	" 15-18	20.00	11.00	16.00	18.00	15.39
10.91 "	4'3" " "	E	" 0-18	20.00	74.40	50.00	35.00	23.49
257.00 "	4'3" " "	D	" 18-21	20.00	11.90	18.00	36.00	17.51
2,580.00	cu yds. Rock Excavation in Open Cut..			1.00	3.05	3.00	5.00	3.00
38.00	Standard Well Manholes..............			30.00	76.25	50.00	75.00	65.00
100.00	ft. Manhole over 9 Feet Deep.........			2.00	8.10	5.00	3.00	5.00
	Total Section 1.........................			$199,095	$153,338	$190,464	$263,623	$175,930

Section 2—

Quantity	Item	Section	Cut	(B)*	(C)*	(D)†	(E)*
2[illegible]0.00 ft.	4'3" Diameter—Section	A	Cut 0-12..	$8.00	$12.00	$15.00	$5.77
10.00 "	4'3" " "	A	" 12-15..	8.90	14.00	16.00	8.70
35.00 "	4'3" " "	A	" 15-18..	9.70	16.00	18.00	15.62
120.00 "	4'3" " "	C	" 0-12..	8.35	10.00	15.00	8.23
40.00 "	4'3" " "	C	" 12-15..	9.05	12.00	16.00	10.17
690.00 "	4'3" " "	C	" 15-18..	9.95	12.00	17.00	10.45
500.00 "	4'3" " "	C	" 18-21..	10.80	12.00	20.00	11.33
1,441.61 "	4'3" " "	D	" 0-12..	9.20	10.00	16.00	7.08
446.77 "	4'3" " "	D	" 12-15..	10.05	10.00	17.00	10.34
65.00 "	4'3" " "	E	" 0-12..	73.30	50.00	30.00	24.45
137.20 "	4'3" " "	G	" 0-16..	14.20	20.00	25.00	15.57
90.00 "	4'3" " "	H	" 0-12..	13.30	20.00	25.00	13.64
77.00 "	4'6" " "	A	" 0-12..	8.80	10.00	16.00	8.81
104.00 "	4'6" " "	A	" 12-15..	9.50	12.00	18.00	10.72
237.37 "	4'6" " "	C	" 0-12..	9.00	10.00	16.00	9.21
293.56 "	4'6" " "	C	" 12-15..	9.85	12.00	18.00	10.80
376.19 "	4'6" " "	C	" 15-18..	10.50	15.00	20.00	11.39
254.66 "	4'6" " "	C	" 18-21..	11.60	16.00	22.00	16.68
113.00 "	4'6" " "	C	" 21-24..	12.45	20.00	24.00	17.08
5.00 "	4'6" " "	C	" 24-27..	13.30	30.00	26.00	12.80
1,894.33 "	4'6" " "	D	" 0-12..	10.15	10.00	17.00	10.06
1,630.24 "	4'6" " "	D	" 12-15..	11.00	11.00	18.00	11.10
855.80 "	4'6" " "	D	" 15-18..	11.75	15.50	20.00	14.87
90.00 "	4'6" " "	D	" 18-21..	12.80	17.00	22.00	16.85
643.39 "	4'6" " "	D	" 21-24..	13.65	18.00	25.00	18.09
115.00 "	4'6" " "	D	" 24-27..	14.45	20.00	30.00	19.70
70.00 "	4'6" " "	D	" 27-30..	15.45	23.00	33.00	20.21
400.00 "	4'6" " "	E	" 0-12..	74.90	40.00	35.00	28.17
15.00 "	4'6" " "	E	" 12-15..	75.75	50.00	35.00	30.37
292.04 "	4'6" " "	G	" 0-12..	18.25	20.00	25.00	16.65
261.00 "	4'6" " "	G	" 12-15..	19.10	22.00	27.00	18.31
55.30 "	4'6" " "	G	" 15-18..	20.10	25.00	29.00	19.30
270.67 "	4'6" " "	H	" 0-12..	13.90	20.00	25.00	15.83
900.00 "	5'3" " "	B	Tunnel...	16.25	15.00	30.00	12.50
10,780.00	cu. yds. rock excavation in open cut......			3.05	2.00	5.00	3.00
1,400.00	cu. yds. rock excavation in tunnel.......			10.15	7.00	10.00	7.00
150.00	cu. yds. excavation in tunnel other than rock			5.10	10.00	10.00	9.00
22.32	ft. standard 4'3" Ramp.................			22.35	30.00	40.00	25.00
39.18	ft. standard 4'6" Ramp.................			24.40	30.00	40.00	25.00
29.00	standard well manholes.................			76.25	50.00	75.00	65.00
2.00	drop manholes			203.30	100.00	150.00	125.00
50.00	ft. of manhole over 9 ft. deep..........			8.15	5.00	3.00	5.00
	Total, Section 2.........................			$229,769	$218,535	$336,072	$205,780

Section 3—

Quantity	Item	Section	Cut	(F)*	(B)*	(C)*	(D)†	(G)*
2,172.04 ft.	3'8" Diameter—Section	D	Cut 0-12	$6.78	$7.70	$8.00	$13.45	$7.75
25.01 "	3'8" " "	D	" 12-24	10.33	9.95	10.00	18.70	7.75
85.00 "	3'8" " "	E	" 0-12	23.54	71.85	30.00	25.75	20.00
280.00 "	3'8" " "	F	" 0-12	7.20	9.25	12.00	15.05	9.00
1,663.76 "	4'3" " "	D	" 0-12	8.31	9.25	9.00	13.70	8.75
23.70 "	4'3" " "	D	" 12-15	9.14	10.20	11.00	14.55	8.75
210.00 "	4'3" " "	E	" 0-12	23.30	74.50	32.00	25.75	20.00
840.00 "	4'3" " "	F	" 0-12	8.43	10.80	12.00	14.40	10.50
470.75 "	4'3" " "	H	" 0-12	15.31	13.30	15.00	18.90	10.50
145.05 "	4'4" " "	D	" 0-12	9.79	9.75	10.00	13.80	9.00
6.75 "	4'4" " "	D	" 12-18	11.28	11.10	12.00	14.45	9.00
90.00 "	4'4" " "	E	" 0-12	26.18	73.40	35.00	25.75	21.00
400.00 "	4'4" " "	F	" 0-12	10.92	11.05	13.00	14.65	10.50
1,269.25 "	4'4" " "	H	" 0-12	18.06	13.55	15.00	18.30	10.50
2,126.43 "	4'9" " "	D	" 0-12	13.93	10.90	12.00	15.20	10.50
1,497.59 "	4'9" " "	D	" 12-15	15.18	11.90	13.00	15.50	10.50
132.20 "	4'9" " "	D	" 15-18	16.45	12.85	15.00	15.95	10.50
65.00 "	4'9" " "	E	" 0-12	27.79	75.40	40.00	28.10	23.00
150.00	cu. yds. rock excavation in open cut....			1.75	4.00	4.00	5.00	4.00
30.00	standard well manholes.................			89.33	76.25	50.00	60.00	50.00
100.00	ft. of manhole over 9 ft. deep..........			5.35	8.15	4.00	3.00	2.00
	Total			$143,182	$153,295	$143,621	$181,447	$117,994

Section 4—

Quantity	Item	Section	Cut	(B)*	(C)*	(D)†
28.00 ft.	4'6" Diameter—Section	A	Cut 0-12..........	$10.45	$12.00	$20.00
82.91 "	4'6" " "	C	" 0-12..........	9.75	10.00	17.50
36.82 "	4'6" " "	C	" 12-15..........	10.00	11.00	18.50
122.54 "	4'6" " "	C	" 15-18..........	10.80	12.00	20.00
249.63 "	4'6" " "	C	" 18-21..........	11.80	13.00	22.00
100.00 "	4'6" " "	C	" 21-24..........	12.60	14.00	23.00
450.00 "	4'6" " "	D	" 0-12..........	10.30	10.00	21.00
205.00 "	4'6" " "	D	" 12-15..........	11.10	11.00	22.00
215.39 "	4'6" " "	D	" 15-18..........	11.80	12.00	23.00
242.37 "	4'6" " "	D	" 18-21..........	12.90	13.00	24.00
40.00 "	4'6" " "	E	" 0-12..........	75.10	40.00	30.00
70.00 "	4'6" " "	F	" 0-12..........	11.50	13.00	22.50
1,100.00 "	4'6" " "	H	" 0-12..........	12.50	16.00	22.00
12.00 "	4'9" " "	A	" 0-18..........	10.35	20.00	17.50
584.92 "	4'9" " "	B	Tunnel	12.20	10.00	30.00
51.81 "	4'9" " "	C	Cut 0-18..........	10.70	15.00	20.50
200.00 "	4'9" " "	D	" 0-12..........	11.00	12.00	21.00
744.00 "	4'9" " "	D	" 12-15..........	11.90	13.00	21.50
83.88 "	4'9" " "	D	" 15-18..........	12.70	15.00	22.00
30.63 "	4'9" " "	D	" 18-24..........	14.80	20.00	24.00
101.00 "	4'9" " "	E	" 0-12..........	71.20	40.00	30.00
11.00 "	4'9" " "	E	" 12-15..........	77.30	50.00	32.00
8.00 "	4'9" " "	E	" 15-18..........	78.40	60.00	34.00
120.00 "	4'9" " "	H	" 0-12..........	13.15	20.00	22.00
138.80 "	5'0" " "	A	" 0-12..........	9.85	15.00	16.50
35.00 "	5'0" " "	A	" 12-15..........	11.80	20.00	17.00
106.00 "	5'0" " "	A	" 15-18..........	11.65	25.00	18.00
22.00 "	5'0" " "	A	" 18-21..........	12.80	30.00	20.00
257.50 "	5'0" " "	C	" 0-12..........	10.10	10.00	16.00
242.35 "	5'0" " "	C	" 12-15..........	12.00	11.00	17.00
339.28 "	5'0" " "	C	" 15-18..........	12.20	12.00	18.00
55.00 "	5'0" " "	C	" 18-21..........	13.05	14.00	19.00
97.00 "	5'0" " "	C	" 21-24..........	13.90	15.00	20.00
157.00 "	5'0" " "	C	" 24-27..........	14.90	16.00	22.00
946.00 "	5'0" " "	D	" 0-12..........	11.50	12.00	22.00
739.12 "	5'0" " "	D	" 12-15..........	13.50	13.00	22.50
493.00 "	5'0" " "	D	" 15-18..........	13.40	14.00	23.00
38.00 "	5'0" " "	D	" 18-21..........	14.50	15.00	24.00
121.80 "	5'0" " "	E	" 0-12..........	77.40	45.00	30.00
16.00 "	5'0" " "	E	" 12-15..........	77.25	50.00	32.00
420.18 "	5'3" " "	D	" 0-12..........	12.20	12.00	34.00
1,241.08 "	5'3" " "	D	" 12-15..........	12.10	13.00	36.00
50.00 "	5'3" " "	D	" 15-18..........	14.10	14.00	37.00
10.00 "	5'3" " "	D	" 18-21..........	15.05	15.00	38.00
31.37 "	5'3" " "	D	" 21-24..........	16.05	20.00	25.00
155.00 "	5'3" " "	E	" 0-12..........	78.10	50.00	31.00
119.82 "	5'3" " "	F	" 0-12..........	13.60	15.00	23.00
32.00 "	6'0" " "	A	" 0-15..........	14.40	15.00	21.00
36.00 "	6'0" " "	A	" 15-18..........	15.30	20.00	22.00
631.26 "	6'0" " "	B	Tunnel	15.75	15.00	30.00
401.84 "	6'0" " "	C	Cut 0-15..........	14.60	15.00	20.00
528.19 "	6'0" " "	D	" 0-15..........	16.05	16.00	22.00
100.00 "	6'0" " "	D	" 15-18..........	17.40	17.00	23.00
265.00 "	6'0" " "	D	" 18-21..........	18.00	18.00	24.00
205.00 "	6'0" " "	D	" 21-24..........	18.80	20.00	25.00
65.05 "	6'0" " "	D	" 24-27..........	19.90	25.00	27.00
65.00 "	6'0" " "	E	" 0-15..........	84.00	60.00	38.00
95.33 "	6'0" " "	G	" 0-15..........	26.85	20.00	25.00
21.60 "	6'0" " "	G	" 15-18..........	27.80	21.00	25.50
27.00 "	6'0" " "	G	" 18-21..........	29.10	22.00	26.50
65.00 "	6'0" " "	G	" 21-24..........	31.25	23.00	27.50
15.00 "	6'0" " "	G	" 24-27..........	31.35	25.00	28.50
30.00 "	6'0" " "	G	" 27-30..........	32.65	30.00	30.00
6,900.00	cu. yds. rock excavation in open cut..........			3.05	1.00	5.00
790.00	" " rock excavation in tunnel........			10.15	10.00	10.00
2,275.00	" " excavation in tunnel other than rock			5.10	5.00	10.00
40.00	standard well manholes.................			76.25	50.00	75.00
1.00	drop manhole			203.30	100.00	200.00
100.00	ft. of manhole over 9 ft. deep..........			8.15	4.00	3.50
	Total			$253,612	$231,264	$395,483

Section 5—

Quantity	Item	Section	Cut	(B)*	(C)*	(D)†	(C)*
188.24 ft.	6'0" Diameter—Section	A	Cut 0-15...	$14.20	$15.00	$20.50	$14.50
150.00 "	6'0" " "	C	" 0-15...	14.45	15.00	20.50	14.50
378.00 "	6'0" " "	D	" 0-12...	15.05	16.00	20.80	15.25
2,346.16 "	6'0" " "	D	" 12-15...	15.55	17.00	21.10	15.25
145.76 "	6'0" " "	D	" 15-18...	16.65	18.00	21.70	15.25
43.00 "	6'0" " "	D	" 18-27...	17.75	25.00	24.70	19.00
483.00 "	6'0" " "	E	" 0-12...	82.50	50.00	36.00	28.00
58.00 "	6'0" " "	E	" 12-15...	84.10	60.00	37.00	28.00
19.00 "	6'0" " "	E	" 15-18...	85.60	70.00	36.70	28.00
200.00 "	6'0" " "	F	" 0-12...	16.40	17.00	23.40	17.25
1,746.45 "	6'0" " "	F	" 12-15...	17.60	20.00	23.90	17.25
543.00 "	6'0" " "	F	" 15-18...	18.60	25.00	24.40	17.25
56.00 "	6'0" " "	F	" 18-24...	21.00	30.00	26.40	20.00
688.00 "	6'0" " "	H	" 0-12...	22.75	20.00	28.00	17.25
2,749.85 "	6'0" " "	H	" 12-15...	23.70	25.00	29.60	17.25
142.15 "	6'0" " "	H	" 15-18...	24.75	30.00	29.20	20.00
334.55 "	6'0" " "	H	" 18-21...	25.90	35.00	30.40	20.00
50.00 "	6'0" " "	H	" 21-24...	26.95	40.00	31.60	20.00
700.00	cu. yds. of Rock Excavation in Open Cut.....			3.05	3.00	5.00	3.00
25.00	Standard Well Manholes.................			76.25	50.00	60.00	50.00
100.00	ft. of Manhole over 9 ft. deep..............			8.15	4.00	3.00	2.00
	Total			$241,058	$241,479	$271,765	$182,618

Section 6—

Quantity	Item	Section	Cut	(B)*	(C)*	(D)†	(C)†
3,495.00 ft.	6'6" Diameter—Section	I	Cut ...	$46.00	$44.00	$45.00	$43.00
4,010.00 "	6'6" " "	J	" ...	38.50	40.00	45.00	39.00
90.00 "	6'6" " "	A	" 20-25...	23.00	30.00	25.00	29.00
29.66 "	6'6" " "	A	" 25-30...	26.45	35.00	35.00	34.00
59.80 "	6'6" " "	F	" 15-20...	26.10	30.00	30.00	29.00
200.00 "	6'0" " "	H	" 10-15...	26.05	30.00	30.00	29.00
11.00 "	6'0" " "	H	" 15-20...	28.90	35.00	35.00	34.00
40.78 "	6'0" " "	H	" 20-25...	30.35	40.00	37.00	39.00
23.98 "	Through and including 2 Drop Manholes.			64.20	30.00	60.00	29.00
1.00	Manhole, including Castings, Steps, Bucket & Fittings			214.00	100.00	150.00	100.00
1.00	Shaft complete with Appurtenances, Ladder, etc....			26,750.00	50,000.00	35,000.00	50,000.00
	Total			$354,839	$378,548	$387,290	$370,587

Section 7—

Quantity	Item	(B)*	(C)*	(D)†	(C)†
1,268.00 ft.	40 C. I. Pipe, including 2 Covered T Branches in 634-ft. Trench..............	$32.10	$40.00	$48.00	$40.00
68.00 "	Concrete Envelope around both 4" Pipes	32.10	15.00	50.00	15.00
16.00 "	Through and including Gate Chamber, Hudson Portal	74.90	150.00	40.00	150.00
1,175.00 "	8'6" Section I, Sewer Tunnel..............	62.90	50.00	63.00	48.00
5,625.00 "	8'6" Section J, Sewer Tunnel..............	52.20	45.00	63.00	43.00
15.00 "	8'6" Section A, Sewer, Cut 0-15..............	27.05	20.00	30.00	20.00
14.00 "	8'6" " A, " " 15-20..............	31.05	25.00	32.00	25.00
51.22 "	8'6" " A, " " 20-25..............	35.30	30.00	35.00	30.00
55.00 "	8'6" " A, " " 25-30..............	38.85	40.00	40.00	40.00
31.00 "	8'6" " F, " " 0-10..............	28.90	30.00	31.00	30.00
20.00 "	8'6" " F, " " 10-15..............	33.20	40.00	32.00	40.00
5.00 "	8'6" " F, " " 15-20..............	37.45	50.00	34.00	50.00
34.00 "	Through and including Reducer, Tibbit's Brook, Cut 10-20, complete..............	42.80	50.00	35.00	50.00
31.00 "	Through and including 1 Increaser, Tibbit's Brook, Cut 0-10, complete..............	53.50	45.00	37.00	45.00
70.00 "	Tibbit's Valley Section as per detail, Cut 0-10..............	40.55	20.00	36.00	20.00
51.41 "	Tibbitt's Valley Section as per detail, Cut 10-15..............	48.15	25.00	38.00	25.00
[illegible]0.00 "	Tibbit's Brook Section (under Brook), Cut 0-10..............	53.50	50.00	45.00	50.00
40.00 "	Tibbit's Brook Section (under railroad), Cut 0-10..............	56.20	50.00	40.00	50.00
31.65 "	Tibbit's Brook Section (under Railroad), Cut 10-15..............	63.10	50.00	40.00	50.00
2.00	Gate Valves complete in place, 4'0" in diameter, per valve..............	214.00	500.00	500.00	500.00
1.00	Shaft Complete with appurtenances, Ladder, C. I. Pipe, etc..............	23,540.00	45,000.00	30,000.00	45,000.00
1.00	Manhole, including Castings, Steps, Bucket and Fittings..............	160.50	100.00	150.00	100.00
	Total..	$463,136	$435,479	$547,658	$421,879

MISCELLANEOUS CONTRACTS.

(* *denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DITCH.—Hartford City, Ind.—Bids are asked until March 23 by Wm. Harley, County Surv., for constructing the John S. Comler ditch.

DITCH.—Mankato, Minn.—Bids are asked until March 13 by Edw. Weaver, County Audr., for constructing Ditch No. 20. Estimated cost, $4,170.

SUPPLIES.—Des Moines, Iowa.—Bids are asked until March 31 by Geo. F. Poorman, City Clk., for electrical supplies, engineer's supplies, lumber, brick, cement, sewer and drain pipe for the fiscal year beginning April 1, 1908.

DRAINAGE.—Davisville, Cal.—Contract for drainage system at State Dairy Farm has been let to RAMSDEN BLAKE CO., of Berkeley, Cal., at $15,754.

*DREDGING.—New York, N. Y.—Bids are asked until noon, April 7, by Col. D. W. Lockwood, Corps Engrs., U. S. A., for dredging in Shrewsbury River, N. J.

DITCH.—Chillicothe, Mo.—Bids are asked at the County Clerk's office until March 23 for constructing a dredge ditch. It will be 28,625 ft. long. Thos. Hurst, County Engr.

*DREDGING.—New York, N. Y.—Bids are asked by Col. F. W. Lockwood, Corps Engrs., U. S. A., 39 Whitehall St., until noon, April 10, for dredging in Raritan Bay, N. J.

FIRE HOSE.—New York, N. Y.—Bids are asked until 10.30 a. m., March 18, by Hugh Bonner, Fire Comr., for furnishing and delivering 20,000 ft. of 3-in. rubber fire hose, five-ply.

PIER.—Racine, Wis.—Bids are asked by the Board of Public Works until March 21 for construction of double pile protection pier. It will extend into Lake Michigan. Estimated cost, $3,000.

*LEDGE ROCK REMOVAL.—Newport, R. I.—Bids are asked until 2 p. m., April 9, by Maj. Harry Taylor, Corps. Engrs., U. S. A. for removal of ledge rock from Newport Harbor and Sakonnet Harbor, R. I.

FIREBOAT SUPPLIES.—New York, N. Y. —Bids are asked by Hugh Bonner, Fire Comr., until 10.30 a. m., March 17, for furnishing and delivering miscellaneous supplies for fireboats.

DITCH.—Paulding, Ohio.—Bids are asked until March 17, by C. L. Straw, County Surveyor, for constructing the Dwight A. Bates Ditch No. 694, or 6-mile cut-off. Total estimated cost, $24,834.

ROPE.—New York, N. Y.—Bids are asked until noon, March 20, by Allen N. Spooner, Comr. Docks, for furnishing all the labor and materials required for furnishing and delivering manila rope.

TIMBER.—Ottawa, Ont.—Bids are asked until March 20, by L. K. Jones, Secy. Dept. of Railways and Canals, Ottawa, for furnishing British Columbia or Douglas fir timber as required for the Rideau Canal.

*DREDGING, DREDGING PLANT.—Duluth, Minn.—Bids are asked by Maj. Graham D. Fitch, Corps Engrs., U. S. A., until noon, April 6, for dredging and hire of dredging plant at Superior Entry, Wis.

*NAVIGATION PASS.—Wheeling, W. Va.—Bids are asked until 11 a. m. (Eastern time), April 7, by Capt. F. C. Boggs, Corps. Engrs., U. S. A., for constructing 700 ft. of navigation pass for Dam No. 11, Ohio River.

DITCH.—Frankfort, Ind.—Bids are asked until 2 p. m., March 28, by William A. Robinson, Drainage Comr., Court-house, Frankfort, for the construction of Peter M. Wiles Ditch, known in the Clinton Circuit Court as Cause No. 702.

LUMBER.—New York, N. Y.—Bids are asked by Robt. W. Hebberd, Comr. Pub. Charities, until 2.30 p. m., March 18, for furnishing and delivering lumber. The time for the performance of the contract is during the year 1908.

CEMENT.—New York, N. Y.—Bids are asked until 3 p. m., March 19, by the Department of Parks, for furnishing and delivering 100 bbls. of Portland cement (No. 2, 1908), and for 200 bbls. Portland cement (No 1, 1908), Boro. Bronx.

DITCH.—Monroe, Ohio.—Bids are asked until 10 a. m., March 14, by James R. Marker, County Surveyor, Greenville, Ohio, for constructing Baker Ditch, in Monroe Township. Estimated cost, $1,993. Work includes 6,822 ft. of 8-in., 10-in., 12-in., 15-in. and 18-in. tile.

*MACHINERY REPAIRS.—Tompkinsville, N. Y.—Bids are asked at the office of the Light-House Engineer, Tompkinsville, N. Y., until 1 p. m., April 7, for furnishing and setting a boiler and for repairs to machinery and hull of the United States light-house tender "Iris."

*DREDGING. — Springfield, Ohio.—Bids were received on March 2 by the Board of Public Service for dredging Buck Creek. The contract was awarded to HUONKER & WILLIAMS, Springfield. Other bidders were John H. McHugh and Charles Bird, both of Springfield.

DITCH.—Charleston, Miss.—Bids were received by E. Bacon, Secy. County Drainage Comrs., on March 3, for constructing a main ditch in Ascalmore Drainage Dist., to be about four miles long, 4 ft. deep and 20 ft. wide. Estimated cost, $14,000. Jones & Dameron submitted a bid at 25 cts. a cu. yd.

BUOY SERVICE.—Tompkinsville, N. Y.—Bids are asked at the office of the light-house inspector, Tompkinsville, N. Y., until 2 p. m., March 19, for maintaining all the buoys now in the Hudson River between New York City and Troy, N. Y., and such others as may be authorized for the year ending June 30, 1909.

DREDGING.—New York, N. Y.—Bids are asked until noon, March 20, by Allen N. Spooner, Comr. Docks, for Contract No. 111: for furnishing all the labor and materials required for dredging about 150,000 cu. yds. on the East and Harlem Rivers, Boroughs of Manhattan, Brooklyn, Queens and the Bronx, and in the Boro. of Richmond.

DITCH.—Hampton, Iowa.—Bids are asked by Frank G. Luke, County Audr., until March 20, for constructing an open ditch and tile drain in Scott-Hamilton Dist. No. 3, requiring about 5,372 ft. tile ranging from 14 to 24 in. and 141,520 cu. yds. excavation. Also open ditch in Morgan and Oakland Drainage Dist. No. 2; about 98,983 cu. yds. excavation.

DITCH.—Ottawa, Ohio.—Bids are asked until March 14, J. T. Maidlow, County Surveyor, for construction of the Buckeye Stove Co. ditch, located in Liberty Township. Work is divided into three sections as follows: Sec. 1, 8,000 ft. long, 20,967 cu. yds., estimated cost, $3,145; Sec. 2, 8,000 ft. long, 35,882 cu. yds.; $5,381; Sec. 3, 10,900 ft. long, 8,564 cu. yds., $1,285.

ICE-BREAKING STEAMER.—Ottawa, Ont. —Bids are asked until March 16 (extension from March 9) by F. Gourdeau, Deputy Minister Marine and Fisheries, for the construction of a steel ice-breaking, mail and passenger steamer, to be delivered at Charlottetown, P. E. I., of the following leading dimensions, namely: 250 ft. long, breadth 40 ft., depth molded 27 ft.

RAIL PIPE FENCES.—New York, N. Y.—Bids were received by the Department of Parks, Arsenal Bldg., on March 5, for furnishing and erecting three rail pipe fences around the grass plots in City Hall Park, Boro. of Manhattan. The contract was awarded to the VULCAN RAIL & CONSTRUCTION CO., North Ninth St., Brooklyn, N. Y., at 64 cts. a ft.; total, $4,224.

DITCHING, ETC.—New Brunswick, N. J.—Bids are asked until 10 a. m., March 21, by John B. Smith, New Brunswick, for ditching, filling and draining so as to free from mosquito breeding places all that stretch of salt marsh situate, lying and being along the shores of the Hackensack River and Penhorn Creek, chiefly within the boundaries of the Borough of Secaucus, Hudson County.

DRAINAGE.—Muncie, Ind.—Bids are asked by Charles Gough, Supt. of Construction, Wysor Block, Muncie, until 2 p. m., March 18, for the construction of that part of Tributary No. 6 from Station No. 69 to Station No. 144.90, being the lower end of outlet thereof, same being a part of the system of drainage known as the Pipe Creek ditch in Madison and Delaware Counties, Ind.

*WIDENING CANAL.—Detroit, Mich.—Bids were received as follows on March 5 by Col. E. L. B. Davis, Corps. Engrs., U. S. A., for widening St. Marys Falls Canal: Great Lakes Dredge & Dock Co., Chamber of Commerce Bldg., Chicago, Ill., $664,250; P. B. McNaughton, Bigtree, Buffalo, N. Y., $691,550; MacArthur Bros. Co., 27 Dearborn St., Chicago, Ill., $704,100; Mason & Henger Co., Richmond, Ky., $79,950.

*REPAIRING PIER.—Grand Rapids, Mich. —Bids were received on March 5, by Col. A. B. Adams, Corps Engrs., U. S. A., for repair of South Pier at Charlevoix Harbor, Mich., as follows: Burk, Smith & Nelson, Muskegon, Mich., $4,716; Nelson J. Gaylord, Ludington, Mich., $4,727; Robert Love, Muskegon, $6,040; L. G. Smith & Co., Muskegon, $6,432; Columbian Construction Co., Muskegon, $7,447.

LUMBER, BULKHEAD.—New York, N. Y. —Bids are asked until noon, March 23, by Allen N. Spooner, Comr. Docks, for furnishing and delivering sawed new yellow pine or Oregon pine lumber, sawed new spruce lumber and sawed new oak lumber.

Also at the same time for furnishing all the labor and materials required for furnishing and delivering granite stone for bulkhead or river wall.

DRAINS.—Fargo, N. Dak.—The Cass County Drainage Board has awarded contract to construct three drains, knowns as Drains Nos. 24, 25 and 26 at estimated cost of $30,000, to Mulgrove, Boyce & Co. of Duluth, Minn. The contract for the construction of the bridges necessary over the drains was let to the J. A. JARDINE BRIDGE WORKS, Fargo. There are about eleven bridges to be constructed in connection with the drains.

DREDGING.—Springfield, Ohio.—Bids were received on March 2 by the Board of Public Service for dredging Buck Creek. W. H. Mahoney, Clk. Bids were as follows: Hounker & Williams, for excavating and dredging, $15,180; for grubbing by roots, $450; total, $15,630. J. H. McHugh, for excavating and dredging, $21,780; for grubbing by roots, $500; total, $22,280. Charles Bird, for excavating and dredging, $16,500; for grubbing by roots, $250; total, $16,750.

POLICE ALARM SYSTEM.—Fort Wayne, Ind.—Bids were received by the Board of Public Safety on Feb. 18 for installation of police alarm system. The contract was awarded to the SIGNALPHONE ALARM CO., of Milwaukee, Wis., at $6,184, for installing system complete, including 40 boxes and 20 miles of wire. Contract awarded to this firm for the sum of $6,184, who also offered $250 for system at present in use, which offer was accepted by the Board of Public Safety, making contract $5,934.

SCRAP IRON, ETC.—Springfield, Mass.—Bids are asked by the commanding officer of the Springfield Armory until March 16 for the purchase of the following material: From Hill shops, 5,000 lbs. scrap wrought iron, 700 lbs. cast-iron scrap burnt and 200 lbs. light cast steel scrap; Water shops, 6,000 lbs. wrought scrap iron, 1,200 lbs. cast-iron scrap burnt, 10,000 lbs. light cast steel scrap, 30,000 lbs. cast steel trimmings, 60,000 lbs. heavy low steel scrap and 500,000 lbs. low steel millings and turnings.

OIL.—Los Angeles, Cal.—The Board of Water Commissioners has awarded contracts for supplying oil for the several pumping stations during the coming year, as follows: ASSOCIATED OIL CO., for the Buena Vista, Slauson Ave. and Figueroa St. station, 79 cts. per barrel; A. F. GILMORE, for pumping station at head works, $1 per barrel; UNION OIL CO., for the Edendale plant, 95 cts. per barrel. The three contracts amount to, approximately, 20,000 barels. About 15,000 barrels will be furnished by the Associated Oil Co.

STONE, SCREENINGS.—New York, N. Y. —Bids are asked by Geo. Cromwell, Pres. Boro. Richmond, until noon, March 24, for furnishing and delivering broken stone and screenings at Stable "B," Columbia St., West New Brighton, Staten Island. Estimated quantities: 1,000 tons of ¾-in. stone; 250 tons of screenings.

Also for furnishing and delivering broken stone and screenings at Tompkins Ave. Yard, Clifton, Staten Island. Estimated quantities: 250 tons of 1¼-in. stone; 720 tons of ¾-in. stone; 250 tons of screenings.

DITCH, LEVEE.—Piggott, Ark.—The Directors of the St. Francis Drainage District of Clay and Greene Counties have let contract to A. V. WILLS & SON, of Pittsfield, Ill., to construct the ditch or canal running through Clay and Greene Counties, a distance of about 32 miles, and emptying into the St. Francis River at the lower end of Bakewell Lake, at about $200,000. They also let contract to W. D. LASSWELL, of Campbell, Mo., to build an extension to the old levee on St. Francis River in Clay County, the contract price being about $35,000.

WHARF.—Jamestown, R. I.—Bids were received by Capt. Willis C. Metcalf, Q. M., U. S. A., 209 Thames St., Newport, on March 4, for constructing an addition to wharf at Fort Wetherill. The bids were as follows: Roy H. Beattie, Fall River, Mass., $39,850, time, 6 months; Joseph C. Terry, Fall River, Mass., $41,350, 7 months; J. K. Sullivan, Newport, R. I., $42,083, 5 months; Frederick S. Wardwell, Stamford, Conn., $37,940, $38,900 (alternative bid), 6 months; Eugen Kuhne, 147 Fourth Ave., New York, N. Y., $27,525. All bids were forwarded to the Quartermaster-General, U. S. Army, Washington, D. C., for final action.

DITCHES.—St. Paul, Minn.—The State Drainage Commission, S. G. Iverson, Secy., has awarded the following contracts for State ditches at a cost of $115,000: (A) to WARD BROS., Audubon, Iowa; (B) to JOHN KOHLER, c/o State Drainage Commission, St. Paul: Ditch No. 53, 13½ miles long, Kelsey, St. Louis County, awarded to (A); Ditch No. 54, 12½ miles long, Meadowlands, St. Louis County, (A); Ditch No. 55, Island, St. Louis County, 13 miles long, (A); Ditch No. 52, Kelliher, Beltrami County, five miles long, (B); Ditch No. 56, Northome, Koochiching County, six miles long, (B); Ditch No. 57, Deer River, Itasca County, 15 miles long, (B); Ditch No. 59, Big Falls, Koochiching County, 13 miles long, (B); Ditch No. 60, Little Fork, Koochiching County, 18 miles long, (B).

BARGE CANAL, Albany, N. Y.—The Canal Board has approved three additional contracts for Barge Canal work, namely: Contracts Nos. 20, 45, and 64. Contract 20 is for dredging a channel in the Mohawk River, between Rexford Flats and Mindenville, a distance of about 54 miles: engineer's estimate, approximately, $3,400,000. Contract No. 45 is for the construction of a dam in the Oneida River at Caughdenoy and of Lock No. 24 and appertaining structures; the estimated cost of the work is about $420,000. Contract No. 64 is for the improvement of the Erie canal from the west end of Contract No. 9, in Orleans County, to 100 ft. east of the Gasport bridge, excepting the Oak Orchard Creek crossing. This contract is about eleven miles long, and will cost about $1,300,000. It is expected that bids will be asked on these contracts soon. F. C. Stevens is Supt. of Public Works.

STEAMER.—Washington, D. C.—Bids were received as follows on March 10 at the office of the Depot Quartermaster, Washington, D. C., for furnishing a twin screw steamer for army service; length, 165 ft.; load line, 154 ft.; breadth, 32 ft.; depth, 17 ft.; in accordance with Government specifications: United States Engineering Works, San Francisco, $199,500; Feb. 27, 1909. Union Iron Works, San Francisco, $200,000; March 15. New York Shipbuilding Co., Camden, N. J., $214,000; March 1. W. A. Fletcher, Hoboken, N. J., $228,000; 290 days. William Cramp & Sons Shipbuilding & Engine Co., Philadelphia, $199,500; nine months. Hurley Drydock Co., New York, $224,000; Feb. 10. Pusey & Jones Co., Wilmington, Del., $209,000; May 10. Maryland Steel Co., Sparrows Point, Md., $224,500; ten months. Gas Engine & Power Co. & Charles L. Seabury Co., New York, $211,000; Dec. 1, 1908. Fore River Shipbuilding Co., Quincy, Mass., $198,000; March 27. Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $196,000; Jan. 18.

CEMENT.—Atlanta, Ga.—Bids were received as follows by R. V. La Dow, Supt. Prisons, Dept. Justice, Washington, D. C., on Feb. 28 for furnishing and delivering at the United States Penitentiary, Atlanta, Ga., 10,000 barrels of American Portland cement: Atlas Portland Cement Co., 30 Broad St., New York, $31,300 for Atlas brand in sacks; allowance for sacks returned, 7½ cts. each. Sciple Sons, 33 North Broad St., Atlanta, Ga., paper, $16,600; duck, $19,000; allowance for sacks returned, 7½ cts. each; brand, Southern States Portland cement. Union Sand & Material Co., St. Louis, Mo., paper, $18,500; duck, $21,000; allowance for sacks, 10 cts.; Atlas brand. Atlanta Sand & Supply Co., Atlanta, Ga., for Bedford cement in paper, $18,800; in cloth, $1.79 per barrel net, including bags, $2.19. Alpha Portland Cement Co., Easton, Pa., for Alpha cement, $21,500 in duck; allowance for bags, 7½ cts. V. H. Kreigshaber, Atlanta, Ga., Speed's brand in paper, $1.735; Bedford brand in paper, $1.88; charge for cloth bags, 10 cts. each. R. O. Campbell Coal Co., Atlanta, Ga., Royal brand, cloth, $1.50 net; allowance for sacks, 7½ cts. each; paper, $1.60. Edison Portland Cement Co., St. James Bldg. New York, Edison brand, in duck, $20,804; allowance for sacks, 7½ cts. Universal Portland Cement Co., Chicago, Ill., Universal cement in sacks, $2.25; allowance for sacks, 10 cts. each. Southeastern Lime & Cement Co., Charleston, S. C., Lehigh brand in cloth, $2.12; Red Diamond, $2.10; allowance for sacks, 7½ cts. Dunning & Son, Atlanta, Ga., Sailor's brand, $20,000; sacks extra. Carolina Portland Cement Co. Atlanta, Ga., bids submitted by telegraph. Cosmos brand, $1.57 net; sacks, 10 cts. each extra; paper, $1.67; Old Dominion brand $1.76 net; sacks, 10 cts. extra; paper, $1.91.

U. S. POSSESSIONS AND CUBA.

ENGINEERING SUPPLIES. — Panama. — Bids are asked until March 30, under Circular 430, at the office of Col. H. F. Hodges, General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for the following engineering supplies: 25 rock drills, 3⅝-in. diameter, with full [illegible] of spare parts, etc.; 900 ft. steam h[illegible] push cars and 12 hand cars; tin-sh[illegible]hinery and tinsmith's hand tools; mill[illegible]tters, carborundum wheels, wrench[illegible]ses, lathe dogs, hand bolt clippers, m[illegible]s, spades, rail tongs, hose clamps, iro[illegible]hers, chain fasteners for dump cars, st[illegible]val brass, tobin bronze, babbitt metal, [illegible] iron pipe, valves, water gages, gage co[illegible]rease cups, padlocks, blow torches, coke [illegible]rs, window glass, railroad flags, chamois [illegible] matches, graphite, magnesia boiler an[illegible] covering, plastic cement, tar, pitch, [illegible] varnish, lumber, 370 untreated piles, [illegible] to 50 ft., 22,000 cross ties, cypress, 7 [illegible] x 9 ft., 50 sets switch ties, 300,000 [illegible]gs.

ENGINES.—Panama.—The I[illegible]an Canal Commission, Washington, D. C[illegible] received a recommendation from the Is[illegible] to reject all bids for a Corliss engine [illegible] generator and engine-driven exciter, [illegible] under Circular 412, Jan. 20. The C[illegible]sion will advertise at once for a Corl[illegible]gine and generator of 150 r.p.m. instead [illegible] r.p.m., for which bids will be opened [illegible]t March 14.

ROPE.—Panama.—The Isth[illegible] Canal Commission, Washington, D. C.[illegible] awarded to the BALL ROPE WORKS, [illegible]uth St., New York, contract for furn[illegible] a large quantity of manila rope, under [illegible]lar 418, at $12,679.

CEMENT.—Panama.—Bids are asked until 10.30 a. m., April 13, under Circular No. 420, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for 4,500,000 bbls. of Portland cement, more or less, to be used for the construction of the canal locks at the rate of about 4,500 bbls. per day. This is an extension of time from March 12. (Noted fully on Feb. 6.)

INDUSTRIAL NOTES.

A. LESCHEN & SONS ROPE CO., St. Louis, Mo., announces the removal of its Denver office to 1649-51 Wazee St.

THE AMERICAN BONDING COMPANY OF BALTIMORE announces the removal of its New York offices from 34 Nassau St. to 84 William St., seventh floor, Royal Insurance Bldg.

THE WOOD DRILL WORKS, Paterson, N. J., state that the International Machinery & Engineering Co., Edificio de la Mutua, Mexico City, Mexico, D. F., will represent them in the future in all of Mexico south of the 23d parallel.

THE WISCONSIN ENGINE CO., Corliss, Wis., manufacturers of Corliss steam engines, gas engines, pumping engines, air and gas compressors, has established a branch office in Atlanta, Ga., in the Candler Building. Julius M. Dashiell has been appointed sales manager.

THE STEEL PLANT of the Tennessee Coal, Iron & Railroad Co., at Ensley, Ala., is in full operation in all departments, and new records for the rail and blooming mills have recently been established. The construction of a new rail mill at this plant has been commenced and will be rushed to completion.

THE AMERICAN BUREAU OF INSPECTION AND TESTS, Monadnock Block, Chicago, announces that it has in press a booklet, for gratuitous distribution, containing the specifications for Standard Bessemer steel rails adopted by the rail manufacturers of the United States and Canada at a recent meeting, with useful tables for figuring quantities of track materials.

EXCAVATION has recently been completed by the North American Dredging Co., San Francisco, Cal., for wharf and slip at Atlanta, Ga., for the Atlanta, Birmingham & Atlanticc Ry. Co. This work consists of about 100,000 cu. yds. of dredging. A bulkheaded lumber basin, 1,600 × 250 ft., has been cut out of the dry land. The New York office of the North American Dredging Co is at 13 Park Row.

THE CONTRACTS for the mail chute equipment of the new Metropolitan tower, New York City have just been awarded to the Cutler Mfg. Co. of Rochester, N. Y. Sixty-one stories of mail chute will be used. Cutler mail chutes are also being installed in the Singer tower the City Investing and the Hudson Terminal buildings—280 stories in all—and in a large number of the high office buildings and hotels now being erected in New York City.

THE REINFORCED CONCRETE CONSTRUCTION CO., Cleveland, Ohio, has announced that it will hereafter carry on a general contracting business and will change its name to the Crowell & Sherman Co. In order to handle its reinforced concrete construction, it has merged that part of its business with the Ferro Concrete Construction Co., of Cincinnati, and in future such contracts will be carried out by the latter company, offices being maintained in Cleveland and in Cincinnati.

THE AMERICAN WATER SOFTENER CO., Philadelphia, Pa., announces that it has opened a filtration department and solicits inquiries from those contemplating the installation of water filters of any capacity, and an opportunity to quote prices on apparatus guaranteed to produce absolutely satisfactory results under all conditions. The filtration department is under the management of George F. Hodkinson, for many years prominently identified with the filter industry, who has had extensive experience in installing filtration plants under all conditions to meet any requirements. The company will gladly make, without charge, analyses, recommendations, sketches and estimates for either filtration or water softening plants for any who contemplate such installations. Its filter installations will be of the same high character and efficiency as its favorably known and extensively used water softening plants.

OLIVER & BURR, 1 Madison Ave., New York, are installing the Clinton Fireproofing System in the new 14-story Bell Building, Montgomery, Ala. Ausfield & Blount, Montgomery, are Archs. Oliver & Burr are also installing the reinforced concrete floors in the Astoria Light, Heat & Power Co.'s new building, Astoria, L. I. The Murphy Construction Co. is the general contractor.

THE CENTURY CEMENT MACHINE CO., Rochester, N. Y., reports a growing demand for its products, and especially in the island of Porto Rico. The first concrete block machine was introduced on the island by the company's representative, F. B. Hatch, and since that time seventeen block machines have been sold in various parts of Porto Rico. In 1907, buildings to the value of $80,000 were constructed by Mr. Hatch and his product was adopted by the Board of Education for school building material.

THE MICHIGAN CITY & INDIANA GAS CO., of Michigan City, Ind., has added to its electric power plant two Corliss units, one consisting of an 18-in. and 38 × 36-in. heavy-duty cross-compound engine direct-coupled to an alternating-current generator of 500 KW. capacity, and the other, of somewhat smaller size, for driving a 300-KW. generator of the same type, each delivering three-phase current at 2,300 volts. Both engines and generators, as well as the condensing apparatus, are of Allis-Chalmers Co.'s build.

THE FEDERAL RAILWAY SIGNAL CO., with its headquarters and works at Albany, N. Y., has been reorganized, according to reports, a new company, the Federal Signal Co., being formed with a New York charter. The new company assumes all the assets and liabilities of the old company, and ample provision of new capital has been made to provide for carrying on the business. The officers of the new company are: Pres., A. H. Renshaw; Vice-Pres., Eugene Seitz and John T. Cade; Secy., Frederic Pruyn; and Treas., Eugene Seitz.

THIRTY OR MORE AGENTS of the National Bridge Co., of Indianapolis, Ind., representing twenty or more States from Maine to Colorado, held a meeting on the 25th ult. to discuss construction work. They stated that reports indicated that a great amount of public work would be commenced this spring. Railroad and traction work, it was said, would likely show a falling off, but highway work will probably exceed former records. The company confines its activity to the erection of concrete bridges. Various improved methods of construction were discussed at the meeting.

For other Proposal Advertisements see pages 47, 48, 49, 50, 52, of Advertisements and Construction News page 88.

STONE ROADS.

Warren County, N. J.

Bids will be received by the Road Committee of the Board of Chosen Freeholders of the County of Warren, on THURSDAY, THE 2D DAY OF APRIL, A. D. nineteen hundred and eight, at half-past eleven o'clock in the forenoon, at the Union Square Hotel in Phillipsburg, Warren County, New Jersey, for the following road in said county, known as the Lopatcong Road, beginning at the Harmony Township line, near Lower Harmony, and extending to the Borough line of Phillipsburg, a distance of 13,688 feet or 2 59-100 miles.

Bidders may examine the plans, cross-sections and specifications for said road at the Union Square Hotel aforesaid.

Each bidder must accompany his bid with a certified check payable to the Director of said Board of Freeholders, for One Thousand Dollars, as a guarantee that if said work is awarded to him he will enter into a contract with said Board for the same, and will give the required bond, in the penal sum of at least the estimated cost of said work, conditioned for the faithful performance of said work. The surety on said bond to be two or more freeholders of the County, or a surety or a trust company of the State of New Jersey, or a surety or trust company authorized to transact business in said State.

Bids must be enclosed in sealed envelopes, endorsed with the name of the road and the name and address of the bidder, and will be received at the hour named and not before and not after.

Blank forms for bids may be obtained at the said Union Square Hotel, or of Joseph R. Thatcher, Director of said Board, at his residence in Washington, in said County.

The right to reject any or all bids is reserved.

Dated March 6, A. D. 1908.

Belvidere, N. J.

The Board of Chosen Freeholders of the County of Warren,

By JOS. R. THATCHER,

Director.

U. S. ENGINEER OFFICE, Duluth, Minn., March 6, 1908.—Sealed proposals for dredging and hire of dredging plant at Superior Entry, Wis., will be received here until noon, Monday, April 6, 1908, and then publicly opened. Information on application. GRAHAM D. FITCH, Major, Engrs.

WATER-WORKS MATERIAL.

McGraw, N. Y.

The Board of Water Commissioners of the incorporated village of McGrawville, N. Y., will receive sealed proposals for water-works material in the approximate quantities named below, up to 2 o'clock P. M. of March 30, 1908. At that time said Board will convene at its office in said village and publicly open and read such bids as have been received prior to that time. The award of contract, if made, will be at the convenience of the Board, which reserves the right to reject any or all propositions.

Material:

One pump of the double geared, power driven, single acting triplex type with cylinders approximately 7" diameter by 10" stroke, outside packed, with water delivery of from 200 to 325 gallons per minute.

8" cast-iron, B. & S. water pipe..	26 tons
6" cast-iron, B. & S. water pipe..	41 tons
4" cast-iron, B. & S. water pipe..	147 tons
Special castings	1,200 lbs.
Wrought-iron pipe, black, 1½"....	1,400 ft.
Lead	13,200 lbs.
Jute	250 lbs.
Hydrants	36
Gates	25
Gate boxes	25

Specifications can be obtained from H. C. Chaffee, Clerk, McGraw, N. Y., or from W. G. Stone, Engineer, Utica, N. Y. Bids must be sealed, endorsed "Proposal for Water-Works Material," and addressed to H. C. Chaffee, Clerk, McGraw, N. Y.

FRED. A. PURCHAS, Pres.,
HARTLEY K. ALEXANDER,
A. BURTON FRASIER,
H. C. CHAFFEE, Clerk,
Board of Water Commissioners,
McGraw, N. Y.

W. G. STONE, Engr.,
Mann Building,
Utica, N. Y.

McGraw, N. Y., March 7, 1908.

SEWER.

Ft. Morgan, Colo.

Notice is hereby given that sealed proposals will be received for the construction of approximately:

56,000 feet of 8-inch sewer.
3,100 feet of 10-inch sewer.
6,300 feet of 12-inch sewer.
2,400 feet of 15-inch sewer.
48 feet of 16-inch cast iron outlet.
125 manholes.
27 flush tanks.
4,000 feet of ½-inch water service pipe.

And such other material necessary for the completion of a sewer system and outlet to the South Platte river, as per plans and specifications for Fort Morgan Sewer District Number One.

Said plans and specifications now on file in the office of City Clerk, Fort Morgan, Colorado.

Proposals shall be enclosed in sealed envelopes and marked "Proposals for Sewer Construction" and shall be filed with the City Clerk on or before 8 o'clock P. M. of Tuesday, March 31, 1908, to be publicly opened by the Mayor and read immediately thereafter.

The right is reserved by the City Council to reject any or all bids.

Instructions to bidders, bidding blanks, plans and specifications may be had of C. C. Rickel, City Clerk, or C. H. Meeker, Engineer.

M. L. MORE, Mayor.

WATER SUPPLY.

Grand Rapids, Mich., March 6th, 1908.

Sealed proposals will be received at the office of the County Clerk until April 2d, 1908, at 5.00 P. M., for installing additional water supply and fire protection system for the Kent County Home of Kent County, Michigan, including pumping station, elevated tank or pressure tank, water mains, etc., according to the plans and specifications on file with the Engineer.

The Building Committee reserves the right to reject any or all bids. Each bidder shall deposit with his proposal a certified check payable to the order of John F. Beck, Chairman Building Committee, in the sum of five (5) per cent. of his proposal to be forfeited to the County of Kent in case he shall fail to enter into contract in accordance with his proposal, should his proposal be accepted by the Committee.

Proposals will be received upon the entire work, and also on portions thereof.

JOHN F. BECK,
Chairman Building Committee.

J. J. WERNETTE,
Consulting Engineer,
Houseman Bldg.,
Grand Rapids, Mich.

SEWER.

Office of the
Commissioners of Sewerage of Louisville,
Incorporated.

Sealed proposals for the construction of a sewer, known as Section "C" of the Southern Outfall Sewer, Contract No. 5 of the Comprehensive System of Sewerage for the City of Louisville, Kentucky, will be received at the office of the Commissioners of Sewerage until 12 o'clock noon April 2d, 1908.

This work consists mainly of a sewer 13 ft. 8 ins. high by 14 ft. wide and 4,206 ft. long.

The principal items in the Engineer's estimate of the work are approximately as follows:

Excavation, 4,206 lin. ft. in open cut or tunnel.

Concrete, 10,700 cubic yards.

Reinforcing steel bars, 770,000 lbs.

Plans and specifications may be seen at the office of the Commissioners, at the office of this paper, and at the office of the Consulting Engineer, Harrison P. Eddy, of Metcalf & Eddy, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposals for Section 'C' of the Southern Outfall Sewer" and addressed to the Commissioners of Sewerage, 603, 605 and 607 Equitable Building, Louisville, Ky.

Each bid shall be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid or a "Bidder's Bond," as described in the form of proposal.

P. L. ATHERTON,
CHAS. P. WEAVER,
Secy. & Treas.
J. B. F. BREED, Chief Engineer.

CAST-IRON WATER PIPE.

Sealed bids will be received by the undersigned until noon of March 26, 1908, for furnishing 5,000 ft. of 10", 6,000 ft. of 8", 9,630 ft. of 6" cast-iron water pipe, special castings, 3—10" valves, 4—8" valves, 14—6" valves; 21 valve boxes and 40—2-way hydrants for 5½-ft. trench. All pipes to conform to the New England Water-Works Specifications, Class "C." Prices to include delivery f. o. b. cars, Rumford Falls, Maine.

CHARLES N. TAYLOR,
Contracting Engineer,
1 Waban St., Wellesley, Massachusetts.

RESERVOIR.

Sealed proposals addressed to the Board of Water Commissioners will be received at the office of the Atlanta Water Works, until 5 o'clock P. M., Wednesday, April 1st, 1908, for the construction of the new reservoir for the Atlanta Water Works.

This work will involve the removal of approximately 125,000 cubic yards of material.

Plans, profiles and specifications can be seen at the office of the City Engineer or General Manager of Water Works.

The right is reserved by the Board of Water Commissioners to reject any or all bids.

BOARD OF WATER COMMISSIONERS,
PARK WOODWARD, General Manager.

Atlanta, Ga., Feb. 25, 1908.

STONE ROADS.

Proposals for 1.794 miles to be finished October 1st, 1908.

For .86 mile to be finished Sept. 1st, 1908.

Plans and specifications can be examined at office of Township Engineer, R. Wanmaker, Mahwah, New Jersey.

Bids to be opened 3 P. M., April 4th, 1908, at office of Township Committee of Hohokus Township, Ramsey, Bergen County, N. J.

Right reserved to reject any or all bids.

CHAS. F. SCHNEIDER,
Township Clerk.

PAVING.

San Salvador, Salvador, C. A.

A contract for the paving with stone of certain streets in the city of San Salvador, Republic of Salvador, will be let during May, 1908.

The distance to be paved with stone, asphalt joints, is in the commercial center of the city, the surface measuring 18,586 meters. Natural or artificial stone to be used, on foundation of solid, pressed material.

Tenders may be sent until May 1, 1908, to Mr. ERNEST SCHERNIKOW, Consul, 42 Broadway, N. Y. City.

U. S. ENGINEER OFFICE, Duluth, Minn., March 10, 1908.—Sealed proposals for furnishing steel plate at Superior, Wis., will be received here until noon April 9, 1908, and then publicly opened. Information on application. GRAHAM D. FITCH, Major, Engrs.

U. S. ENGINEER OFFICE, Newport, R. I., March 10, 1908.—Sealed proposals for removal of ledge rock from Newport harbor and Sakonnet harbor, R. I., will be received here until 2 P. M., April 9, 1908, and then publicly opened. Information furnished on application. HARRY TAYLOR, Maj., Engrs.

U. S. ENGINEER OFFICE, Wheeling, W. Va., March 9, 1908.—Sealed proposals for constructing 700 feet of navigation pass for Dam No. 11, Ohio River, will be received at this office until 11 A. M. (Eastern time), April 7, 1908, and then publicly opened. Information furnished on application. F. C. BOGGS, Capt. Engrs.

OFFICE, COMMISSIONERS, District of Columbia, Washington, Feb. 24, 1908.—Sealed Proposals will be received at this office until 12 o'clock M., Monday, March 16, 1908, for constructing sewer in the District of Columbia. Forms, specifications and necessary information may be obtained at room 43, District Building, Washington, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, JAY J. MORROW, Commissioners, D. C.

Situations Wanted

Mechanical and Electrical Engineers.

ELECTRICAL ENGINEER—Technical graduate (28); two years in testing department of large manufacturing company; four and a half years with present company on construction and engineering work. Thoroughly familiar with high-tension work. Available at any time. Address "E. A. 11," Engineering News, New York. 11-3t

HOISTING MACHINERY—Mechanical engineer (30), graduate, now in charge of department of large Eastern concern, specialist in automatic mining hoists, steam and electric, wishes change. Prefers West; goes anywhere. Address "W. A. 11," Engineering News, New York. 11-3t

INSTRUCTOR in mechanical drawing and engine design at technical college, with 28 hours per week at disposal, desires part time work. Familiar with building business and structural design. Address "I. 11," Engineering News, New York. 11-2t

MECHANICAL ENGINEER (high class man), with many years' experience in the mechanical line, and familiar also with steel and masonry construction, is looking for an opening as engineer or superintendent. "B." 520 W. 162d St. 11-1t

Civil Engineers.

CIVIL ENGINEER—Technical education, 10 years' experience. Chief of party and resident engineer in railroad location, construction and maintenance, including shops and terminals, city and country; open for engagement. Permanency of position with advancement desired, rather than present high salary. Address "D. A. 11," Engineering News, New York. 11-1t

CIVIL ENGINEER (33), technically educated, ten years' experience railroad construction and maintenance, and able to produce satisfactory results, desires situation. Address "S. A. 11," Engineering News, New York. 11-4t

CIVIL ENGINEER—Expert in structural work (bridges and buildings), desires engagement. Address "P. A. 11," Engineering News, New York. 11-1t

YOUNG CIVIL ENGINEER, graduated German university; specialties, structural and concrete work, bridgework; European and American experience in building and railroad construction; good draftsman and calculator; masters German and French perfectly; $20 to start. Anywhere. Open from April 1. Address "M. A. 11," Engineering News, New York. 11-3t

YOUNG civil engineer, technical education, experienced, railroad preliminary, location and construction, heavy masonry, foundations, etc., desires position. Address "C. A. 20," Engineering News, New York. 11-tf

CIVIL ENGINEER and map draftsman, 16 years' experience, largely on sewer work, municipal engineering and railroad work. Chief of party on surveys. Good letterer and map draftsman. Samples of same submitted. Married man, desiring steady position more than large salary. State salary offered and permanency of work. Address "E. A. 8," Engineering News, New York. 11-3t

WANTED—Position by college graduate with eleven years' engineering experience on location, construction and maintenance of way. Good references from previous positions. M. of W. work preferred. Address "G. A. 10," Engineering News, New York. 11-2t

GRADUATE ENGINEER, Associate M. Am. Soc. C. E., twelve years' experience, railroad location and construction, also coal land surveys and water power developments, etc., as assistant engineer, resident engineer, chief draftsman, principal assistant engineer, etc., desires position as office engineer or chief draftsman on construction or maintenance; can handle all classes of work, office or field, and get results; at present employed at $250 per month; work nearing completion reason for changing. Address "Z. A. 11," Engineering News, New York. 11-6t

WANTED—Graduate civil engineer with six years' experience would like opportunity to state his qualifications for any job paying $125 or more. Address "X. A. 11," Engineering News, New York. 11-2t

YOUNG ENGINEER, technical graduate, two years' experience on railroad construction, desires position; go anywhere. Address "G. 11," Engineering News, New York. 11-12t

CIVIL ENGINEER desires engagement; varied experience. For particulars write W. H. FULLER, Hastings, Neb. 11-10t

GRADUATE C. E., 29, six years' field and office experience in railroad location, construction and M. of W. Good instrumentman and draftsman. Have high-grade field instruments. Address "H. A. 11," Engineering News, New York. 11-3t

CIVIL ENGINEER and Superintendent—Experienced in steam and electric railway location and construction; municipal engineering, sewer construction and brick and asphalt paving. Address "M. B. 11," Engineering News, New York. 11-3t

GRADUATE C. E. (29), six years' field and office experience in railroad location, construction and M. of W. Good instrumentman and draftsman. Have high-grade field instruments. Address "H. A. 11," Engineering News, New York. 11-3t

CIVIL ENGINEER and superintendent—Experienced in steam and electric railway location and construction; municipal engineering, sewer construction and brick and asphalt paving. Address "M. B. 11," Engineering News, New York. 11-3t

Bridge and Structural Engineers.

CONSULTING bridge and structural engineer desires to become associated with an established engineering firm. Broad experience and good references. Address "K. A. 11," Engineering News, New York. 11-12t

GRADUATE ENGINEER, thoroughly experienced in designing, detailing and estimating all classes of structural steel, desires position with architect or general contractor. Address "D. 11," Engineering News, New York. 11-4t

Surveyors.

INSTRUMENTMAN (23), three years' experience on railroad, municipal and macadam road work, desires position. Good draftsman. Location no object. Address "S. B. 8," Engineering News, New York. 11-1t

INSTRUMENTMAN (23), three years' experience on railroad, municipal and macadam road work, desires position. Good draftsman. Location no object. Address "S. B. 8," Engineering News, New York. 11-1t

RODMAN, experienced, desires position; technical training, good mathematician; references. Address "R. B. 11," Engineering News, New York. 11-2t

AMERICAN, 20 years old, high school graduate, desires position as chainman or rodman. Knowledge of the work. Salary small. Address "S. B. 11," Engineering News, New York. 11-1t

RODMEN—Two young men with college education and practice want position with surveyor's party within city limits. Address "L. A. 11," Engineering News, New York. 11-1t

EXPERIENCED young man wants position as instrumentman or draftsman; 5 years' railroad location and construction experience in Southern States; technical eduation; references. Address "E. 11," Engineering News, New York. 11-1t

SEVEN (7) years experience on general surveys, municipal, railroad and construction work. Good draftsman and computer. Address "A. 11," Engineering News, New York. 11-3t

YOUNG MAN studying surveying wants position as rodman or chainman where he can advance as soon as capable. ARCHIBALD TAYLOR, Somerville, New Jersey. 11-1t

YOUNG MAN, 7 years' experience; field and office; general surveying, sewers, electric railway location. Best references. M., Box 64, Ocean Grove, N. J. 11-3t

RESIDENT ENGINEER or instrumentman desires position east Mississippi River. Experience: four years' preliminary location and construction railroad work as instrumentman and assistant resident engineer in East, South, West; two years' land surveying and drainage; one year's U. S. Topographic surveying; 32; unmarried; sober. Address D. D. TEETS, Buckhannon, W. Va. 11-5t

YOUNG MAN (19), I. C. S. surveyor student, wants position; rodman or chainman, railroad preferred; vicinity N. Y. C. Inexperienced, but willing. State salary. Address "Z. 11," Engineering News, New York. 11-1t

INSTRUMENTMAN, draftsman, computer, experienced on location, topography, stadia and land surveys; can take charge; reasonable terms. M. P. McDOLE, 135 Delphine St., Philadelphia, Pa. 11-1t

INSTRUMENTMAN Desires position, three years' experience in railroad work. Understands stadia work; good references; will go anywhere and can report at once. Address ARTHUR LANSBERRY, 207 Reed St., Clearfield, Pa. 11-2t

Draftsmen.

DRAFTSMAN, structural, bridge and mill building; American; technical graduate; 5 years detailing and checking, 3 years mechanical. Low salary. Address "K. B. 11," Engineering News, New York. 11-3t

PLATTING and tracing work wanted by young engineer, to do at home. Address "F. 11," Engineering News, New York. 11-1t

DRAFTSMAN (26), eight years' shop and office experience, detailer, tracer, letterer. P. A. B., 261 W. 20th St. 11-1t

DRAFTSMAN—Experienced on general work. Structural and mechanical. Outside work. Have been with engineer and with contractor. Address "B. A. 11," Engineering News, New York. 11-1t

STRUCTURAL DRAFTSMAN, five years' experience detailing and checking; technical graduate. Address "W. B. 11," Engineering News, New York. 11-1t

DRAFTSMAN—Structural, bridge and mill building; American; technical graduate; five years detailing and checking; three years mechanical. Low salary. Address "K. B. 11," Engineering News, New York. 11-3t

SALESMAN-ENGINEER, with wide experience in designing and selling all types of boilers and heavy plate work, desires position as salesman, engineer or manager. Excellent references as to ability and integrity. Address "L. B. 11," Engineering News, New York. 11-9t

Superintendents, Misc., etc.

EXPERIENCED SALESMEN, opening office in Washington, D. C., desire to make arrangements to represent manufacturers of standard specialties and supplies for railroads and contractors. Southern territory. Address "G. A. 11," Engineering News, New York. 11-1t

POSITION as paymaster or chief clerk. Age 28. Experience in Canada, Newfoundland and the States, on railroad construction and mining. Fair technical knowledge. Address "F. A. 11," Engineering News, New York. 11-3t

UNIVERSITY PROFESSOR, head of department, desires summer school engagement; civil engineering, mining, or mathematics. Address "C. A. 11," Engineering News, New York. 11-2t

ADVERTISING MANAGER of a department of publicity desires a change. Strong technical correspondent and detail man. Has ability to design attractive advertising, also devise sales plans that are effectual in increasing output and profits. Address "A. A. 11," Engineering News, New York. 11-1t

POSITION WANTED as sales agent by man thoroughly conversant with iron and steel industries. Qualified to act as general manager of concern manufacturing steel equipment for engines and contractors. Salary or commission. Address "R. A. 11," Engineering News, New York. 11-1t

SUPERINTENDENT and estimator for concrete, cement and asphalt master work, by married man 30 years old, twelve years' experience; reference furnished. Address "H. 11," Engineering News, New York. 11-1t

ENGINEER with wide experience in the design and erection of all classes of reinforced concrete, desires position. Address "C. 11," Engineering News, New York. 11-4t

EXPERIENCED STENOGRAPHER and engineer's assistant, technical graduate and draftsman, several years with well known engineering firms, wishes to change present position. Reliable, trustworthy and willing; unquestionable references. Address "O. A. 11," Engineering News, New York. 11-1t

CONTRACTOR'S SUPERINTENDENT desires position; 12 years' practical experience on brick and concrete buildings. Best references. Address "X. 11," Engineering News, New York. 11-2t

COOPER UNION GRADUATE; one year detailing experience; desires a position with a structural concern. Salary no object. S. K., 419 E. Houston St., New York City. 11-2t

GRADUATE ENGINEER, executive ability and tact; 10 years' successful experience on designs, inspections, reports, construction and field and office management of buildings, piers, coaling plants, power plants, dry docks, difficult foundations and subaqueous railroad tunnels. Responsible position desired. Address "B. 11," Engineering News, New York. 11-1t

ENGINEER of large experience, with excellent references and with a thorough knowledge of first-class work, wishes to hear of an opening as consulting engineer or superintendent. "ENGINEER," Drug Store, cor. 149th St. and Amsterdam Ave. 11-1t

GRADUATE ENGINEER, 15 years' experience, good computer and draftsman; has had charge of power-house construction; desires position near New York City. Address "I. A. 11," Engineering News, New York. 11-3t

TECHNICAL GRADUATE (32), have had 6 years' all-around experience in field and office work; desires position with railroad or with consulting engineer; salary moderate. Address "Z. A. 10," Engineering News, New York. 11-1t

REINFORCED CONCRETE engineer open for position. Inside or outside work. Address "P. B. 11," Engineering News, New York. 11-2t

GRADUATE ENGINEER, 15 years' experience, good computer and draftsman; has had charge of power house construction; desires position near New York City. Address "I. A. 11," Engineering News, New York. 11-3t

SALESMAN-ENGINEER—With wide experience in designing and selling all types of boilers and heavy plate work, desires position as salesman engineer or manager; excellent references as to ability and integrity. Address "L. B. 11," Engineering News, New York. 11-9t

Situations Open

WANTED—In office of consulting engineer in Mexico, experienced instrumentman, topographer and draftsman, for both field and office work. Must have had at least four years' field experience with instruments and be a good draftsman. Also architectural draftsman and designer; must be able to catch ideas quickly and have some originality in both exterior and interior design and the carrying out of details. Name lowest salary and send specimen of work. Good opportunity for competent men. Address "O. 11," Engineering News, New York. 11-1t

A WESTERN PENNSYLVANIA ornamental iron firm wants young man familiar with drafting. State ability and salary expected. Address "P. 11," Engineering News, New York. 11-3t

WANTED—To correspond with a first-class up-to-date quarry and stone crusher man, with one or two thousand dollars to invest in, and take charge of a good stone proposition in Georgia. Address "R. 11," Engineering News, New York. 11-2t

WANTED—Chief chemist for cement plant producing high-grade product. Good position open for competent man. References required. High-class man of experience desired and only those need apply. Address "S. 11," Engineering News, New York. 11-1t

WANTED—Men in sales department having had experience in estimating and selling structural steel and iron. Give full information, stating experience, etc. Address "L. 11," Engineering News, New York. 11-1t

MEN for fire rangers; knowledge of French desirable. Woods and engineering or forestry experience essential. References; details of experiences. ELLWOOD WILSON, Grand Mere, P. Q., Canada. 11-1t

WANTED—Two or three first-class foremen on macadam road work. Do not apply unless you have good recommendations and are strictly temperate. Apply by letter to WILKES-BARRE CONSTRUCTION CO.; 53 Bennett Building, Wilkes-Barre, Pa. 11-2t

SITUATION OPEN to young, energetic graduate civil engineer who can invest ten thousand dollars, in a good paying, old established, responsible concern; money under our control and secured. Address "O. B. 11," Engineering News, New York. 11-1t

WANTED—An experienced man to promote paving material. Apply with references, salary required. Address "M. 11," Engineering News, New York. 11-1t

DRAFTSMAN—Good, plain letterer, able to plat from notes, and keep small set double-entry books. Knowledge of French desirable. Sample work; references. ELLWOOD WILSON, Grand Mere, P. Q., Canada. 11-1t

Miscellaneous Wants

ENGINEERING estimates, reports and designs quickly and neatly done by experienced engineer. Address "W. 11," Engineering News, New York. 11-1t

WANTED—Will pay $2.00 ... 1 copy of Engineering News of June ... 1874, at that time called the Eng... Architect & Surveyor; and 10c. ... for copies of Feb. 20, 1908. Cost ... mailing allowed in addition. Address ... T., care Engineering News, New ... 11-tf

WANTED—Report on Ba... Canal, 1901, Hudson River to Gre... kes; 2 parts. TYLER, 150 Donalds... Ave., Rutherford, N. J. 11-1t

CIVIL ENGINEER—Expe... sewerage, sewage disposal and wat... rks engineer, design and constructio... perienced estimator; executive abi... desires position with engineers or ... ractors. Will advise local engineers ... the above matters. Reasonable salar... charges for services. Would invest ... sponsible engineering or contractin... firm. Address "K. A. 8," Engineer... News, New York. 11-6t

STRUCTURAL DETAILIN... Contracts taken and finished on sh... notice. Mechanical ideas worked o... and developed. JAS. Q. NEWCOMB, C... 134 Broadway, Brooklyn. 11-1t

A Civil Engineer

With office and sale facili... desires the SOLE AGENCY in New Yo... and vicinity for Engineering, Electrical ... Contractors' Machinery.

Address 146, INSULATI... CO., 1 Broadway. New York. 11-1t

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Boilers for Sale

2—150 H. P. Horizontal Tubular Boilers, good for 80 lbs. In first-class condition. Cheap to immediate buyer.

THE NEW YORK PURCHASING AGENCY, Incorporated.
76 Pine St., New York City. 11-1t

FOR SALE.

3852 Linear Feet of New Steel Rails

Penna. Steel Co.'s section No. 278, for immediate delivery f. o. b. cars Portland, Maine.
PORTLAND BRIDGE DISTRICT,
34 Exchange St., Portland, Maine. 11-4t

FOR SALE.

1—Improved "A" Marion Shovel, 1¾ yd., just out of shops.
3—No. 3 Foote Concrete Mixers, steam power on wheels, with traction.
12—3-yd. two-way Western Dump Cars.
1—No. 5 Champion Crusher Plant, complete with engine and boiler, worked only four months.

Address ARTHUR L. SHREVE & CO., P. O. BOX 89, BRYN MAWR, PA. 11-1t

SPECIAL BARGAIN

Contractor's job finished, will sell or rent, at very low price, 2,000 ft. Koppel Portable Track, 12 Koppel Concrete Side Dump Steel Cars, Switcher, etc., 2 ft. gage. Address "X. B. 11," Engineering News, New York. 11-2t

Concrete Mixers For Sale

1—No. 3 Ransome with Engine, Boiler and Hoist, mounted on wheels, complete with Elevator and Bucket. In first-class condition; used on one job only. $850.00.

1—No. 2 Ransome with Engine and Boiler mounted on wheels. To immediate buyer. $350.00.

THE NEW YORK PURCHASING AGENCY, Incorporated.
76 Pine St., New York City. 11-1t

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